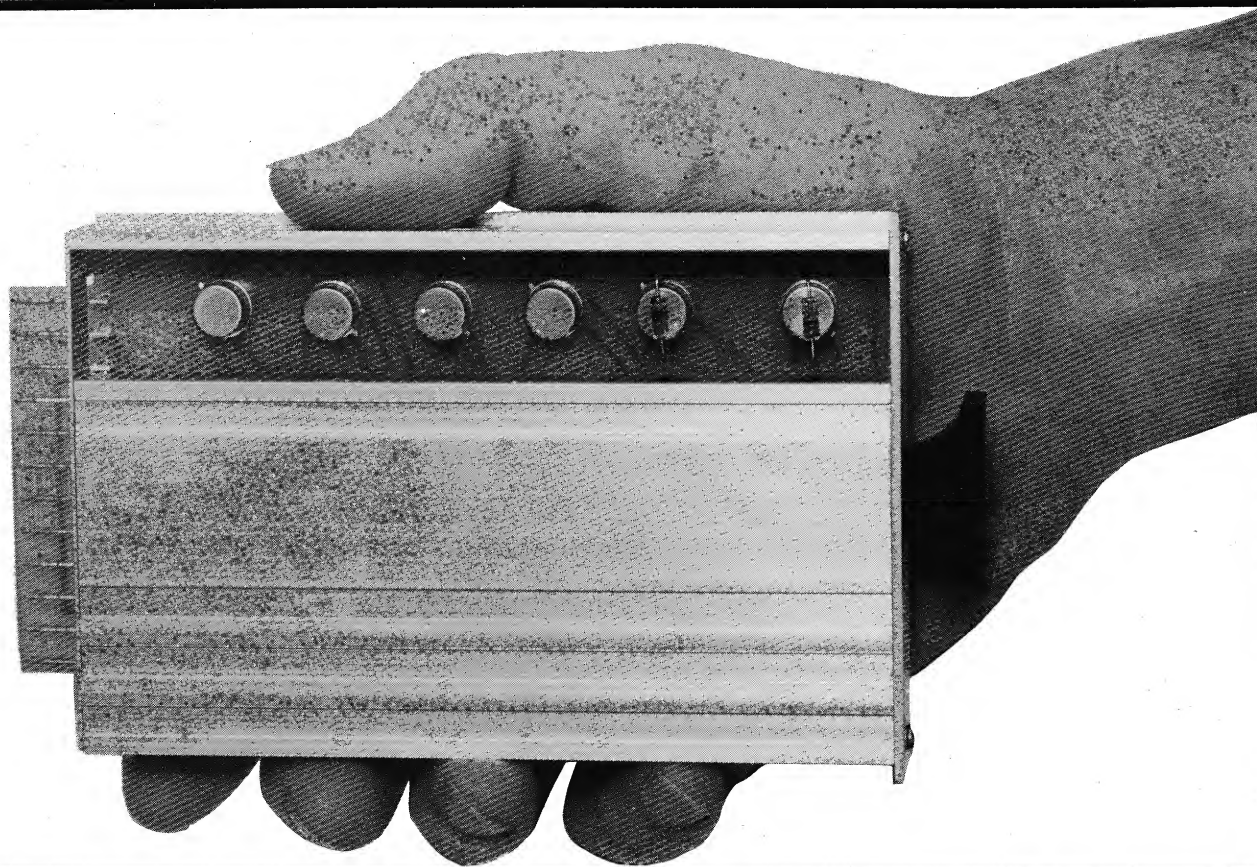




AMEGA

INTERCHANGEABLE

MODULAR AMPLIFIER SYSTEM



AMPLIFIERS — MIXERS — CONSOLES

FOR MOTION PICTURE STUDIOS

THE AMEGA MODULE SYSTEM

Amega has been the pioneer of the interchangeable audio module. The units were developed for sound recording and international communications.

For motion picture recording, the entire studio can be standardized with only one type interchangeable amplifier. Heretofore, most recorders have been made up of integrated chassis coupled with the film transport. Input output impedances had variation from one unit to the other and different methods of equalizing were usually employed.

With the modular system, the basic amplifier terminates to a 12 pin plug. Transformers, equalizers and gain controls are coupled *externally* which achieves the versatility required. The module has 90 db gain and when coupled to the input transformer, totals 100 db which is adequate for the average low level microphone. As a recording amplifier, the cradle enclosure provides space for equalizing components, gain adjustments and the necessary plugs and receptacles. As a playback amplifier, low impedance heads can be directly coupled to the first stage of the amplifier. The gain control is interstage connected and the output transformer is connected through the cradle receptacle. Fixed gain adjustments can be made interstage and feed back adjusted as may be desired. The basic module is never changed.

For mixers and consoles, the module can be used as a microphone preamp, line amplifier, booster amplifier. A 600 ohms attenuator can be connected interstage and low impedance mixing networks can be accomplished.

Amega now offers complete individual assemblies from microphone to final output amplifier. Many studios have gone through a retro fit program installing these units for the complete audio chain. Low impedance heads are available for adaptation to existing film transports. Mixing components are also supplied with complete instructions.



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AMEGA

AMPLIFIERS

For

MOTION PICTURE RECORDING

MIXERS

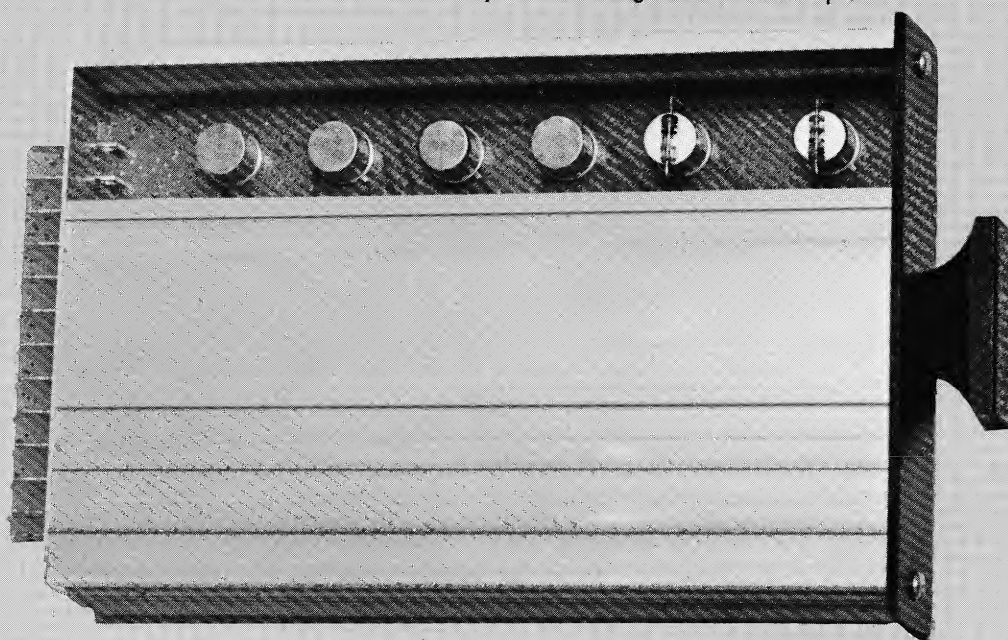
CONSOLES

RECORDERS

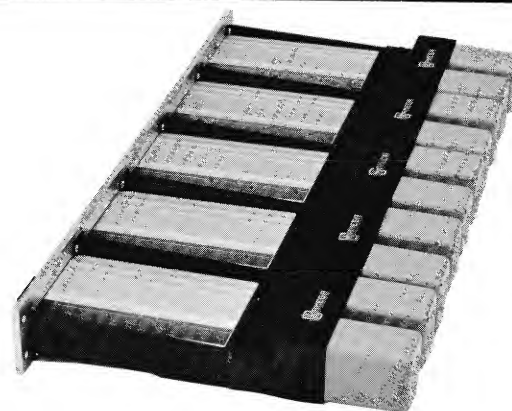
REPRODUCERS

Basic module shown with transistors exposed has Amega proprietary design including the extruded enclosure and end plates. The circuit board slides into special grooves and can be easily removed with two screws. Enclosure protects circuit board from flexing or mishandling which could damage printed circuit. Modules are unconditionally guaranteed for one year on an exchange basis.

With modular system, audio maintenance for a complete studio requires only one spare module. The reliability of transistors is undisputed. Computer, telemetering, instrumentation and communications applications have proven the versatility of the Amega module concept.



1 $\frac{3}{4}$ " x 19" will mount a two microphone input, record and reproduce audio system. Five line amplifiers can be likewise accommodated.



AMEGA E-1 MIXER



A NEW MIXER FOR PORTABLE OR STUDIO USE UTILIZING THE LATEST ENGINEERING ADVANCES. DESIGNED WITH "CONTINUED PERFORMANCE" FEATURES FOR MOTION PICTURE RECORDING AND DUBBING.

FOUR MICROPHONE INPUTS

FOUR BRIDGING INPUTS

TWO POSITION DIALOGUE EQUALIZATION WITH INDICATOR LIGHTS IN EACH CHANNEL

PLUG-IN TRANSISTOR AMPLIFIERS

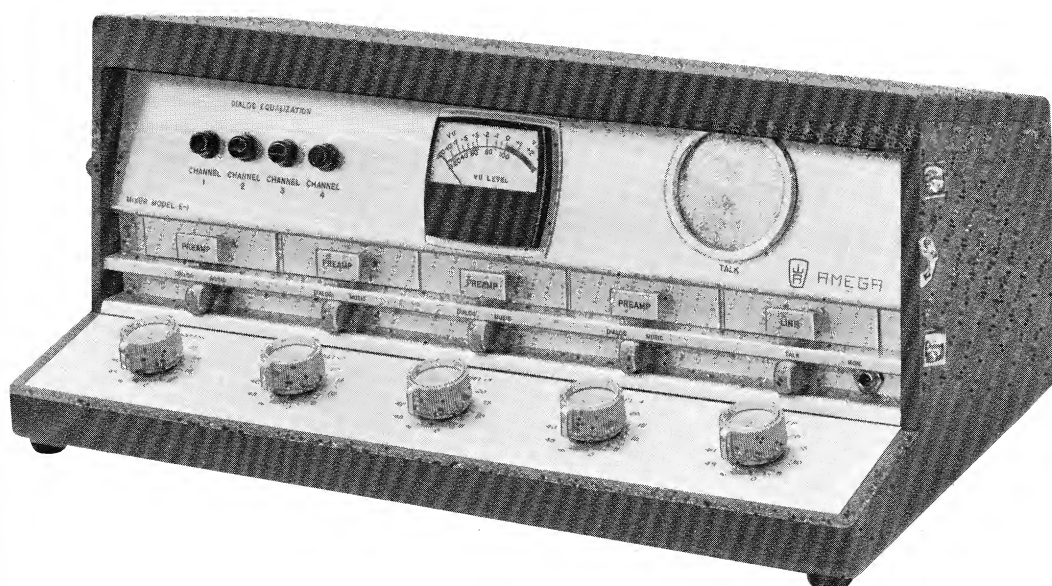
LOW HEAT AND POWER DRAIN

NO MICROPHONICS

MIC PREAMPS MAY BE SUBSTITUTED FOR LINE AMP

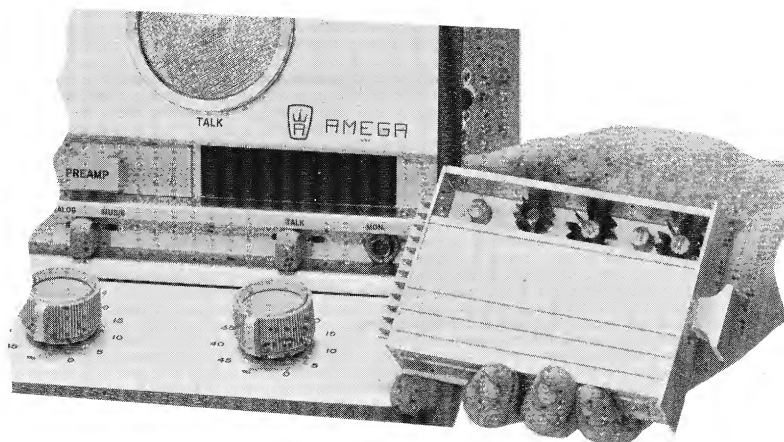
LEVEL SET/BLOOP OSCILLATOR

TALK/SLATE MICROPHONE



MICROPHONES, DUBBERS, TAPE RECORDERS, DISK PLAYBACK, ETC. CAN ALL BE MIXED SIMULTANEOUSLY. SEPARATE CONNECTORS FOR BRIDGE INPUTS MAY BE LEFT HOOKED UP IN STUDIO ALONG WITH MIC LINES.

ALL PLUG-IN PREAMP MODULES FOR AMEGA MIXERS ARE INTERCHANGEABLE WITH OTHER MIC AND PLAYBACK PREAMPS IN AMEGA RECORDERS OR DUBBERS.



QUALITY CANNON XLR CONNECTORS

TRANSISTOR RELIABILITY

STUDIO PERFORMANCE AND CONVENIENCE

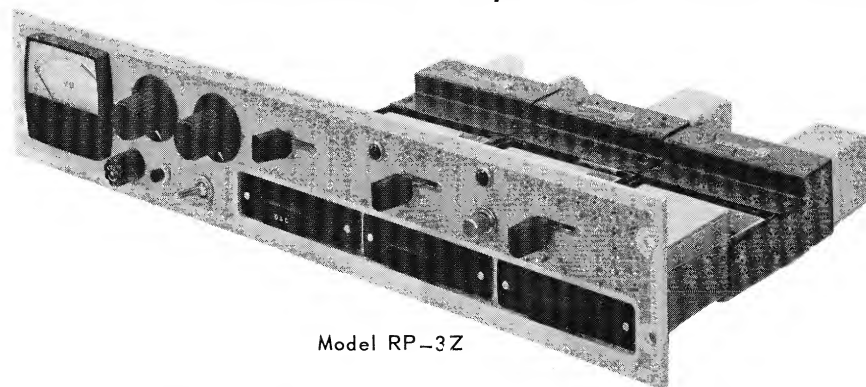
THE PLUG-IN MODULES HAVE SPECIAL "SPACE AGE" ENCLOSURES PROTECTING ALL COMPONENTS. TRANSISTORS ARE VENTILATED AND THERMAL PROTECTED BY A SPECIAL CIRCUIT FOR UTMOST RELIABILITY AND LOW MAINTENANCE.

AMEGA

"ZERO IN" "ZERO OUT"

STUDIO RECORD-REPRODUCE AMPLIFIER

600 ohms Transformer Input 600 ohms Transformer Output

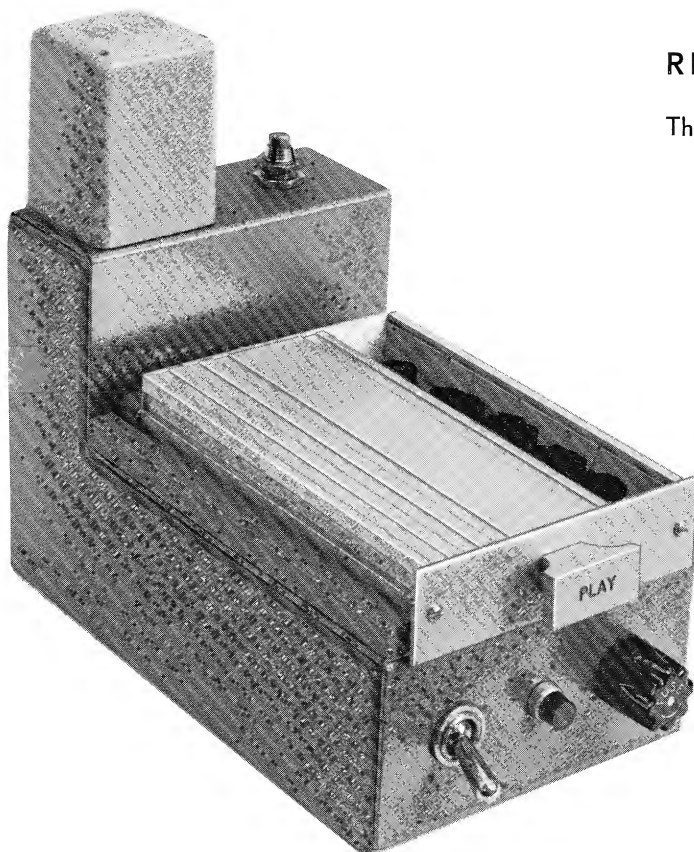


Model RP-3Z

Completely housed within a 3½" x 19" panel is a complete zero in zero out studio record reproduce system. Switching is provided for record play, film direct monitoring and bias read. Both record and play gain controls are located on the front panel.

This unit is ideal as a retro fit replacement for an existing vacuum tube type amplifier. The record play modules are interchangeable.

Erase heads can also be installed in existing equipment at a nominal cost. The same bias oscillator can be utilized for both recording bias and erase current requirements.



REPRODUCE AMPLIFIER

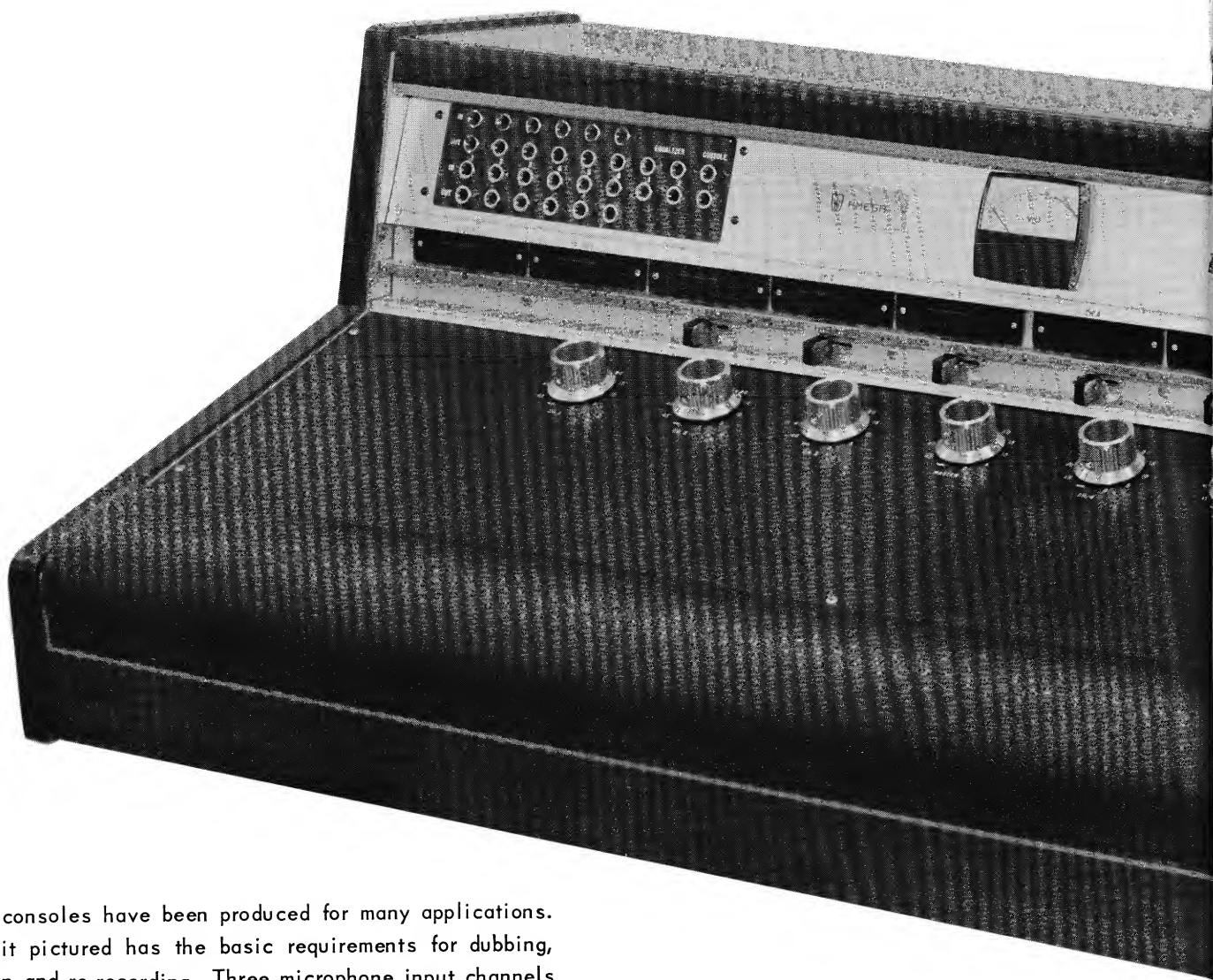
The unit pictured is completely self-contained, including power supply and interchangeable module for reproducing. Both low and high impedance heads can be equalized to meet SMPTE and other standards.

Output gain control is screw driven adjustment type and can be set for high level output after equalizer has been installed.

Signal to noise ratio of unit is -65 db.

Model PB-1





Amega consoles have been produced for many applications. The unit pictured has the basic requirements for dubbing, narration and re-recording. Three microphone input channels and three high level inputs are mixed with master gain control. The patch pay permits equalizer and secondary inputs to be bridged for mixing reproduce signals from record players, optical film, tape recorders and magnetic film reproducers. Microphone inputs for narration, foreign dialogue and special effects are also mixed through the master gain control.

Indicator lights show that dubbers and
Push button controls are included for i

AMEGA MOTION PICT



Rotary or slide type attenuators can be ordered depending on the operator's preference. Key type switching for equalizer "in" equalizer "out" can be specified. The master gain control can be a slide type attenuator.

The standard Amega console is constructed of walnut and finished to beautify the most elaborate studio. A foam rubber padded arm rest is standard for all models. The control panel is black anodized aluminum finished to be durable and to emphasize all indicators and calibrations.

Slide type equalizers can be included either on the right hand or left hand side of the control panel. The patch bay can be wired for equalization ahead of each input, interstage as well as complete program equalization for the console output. Write the Amega "Workshop" for additional details.

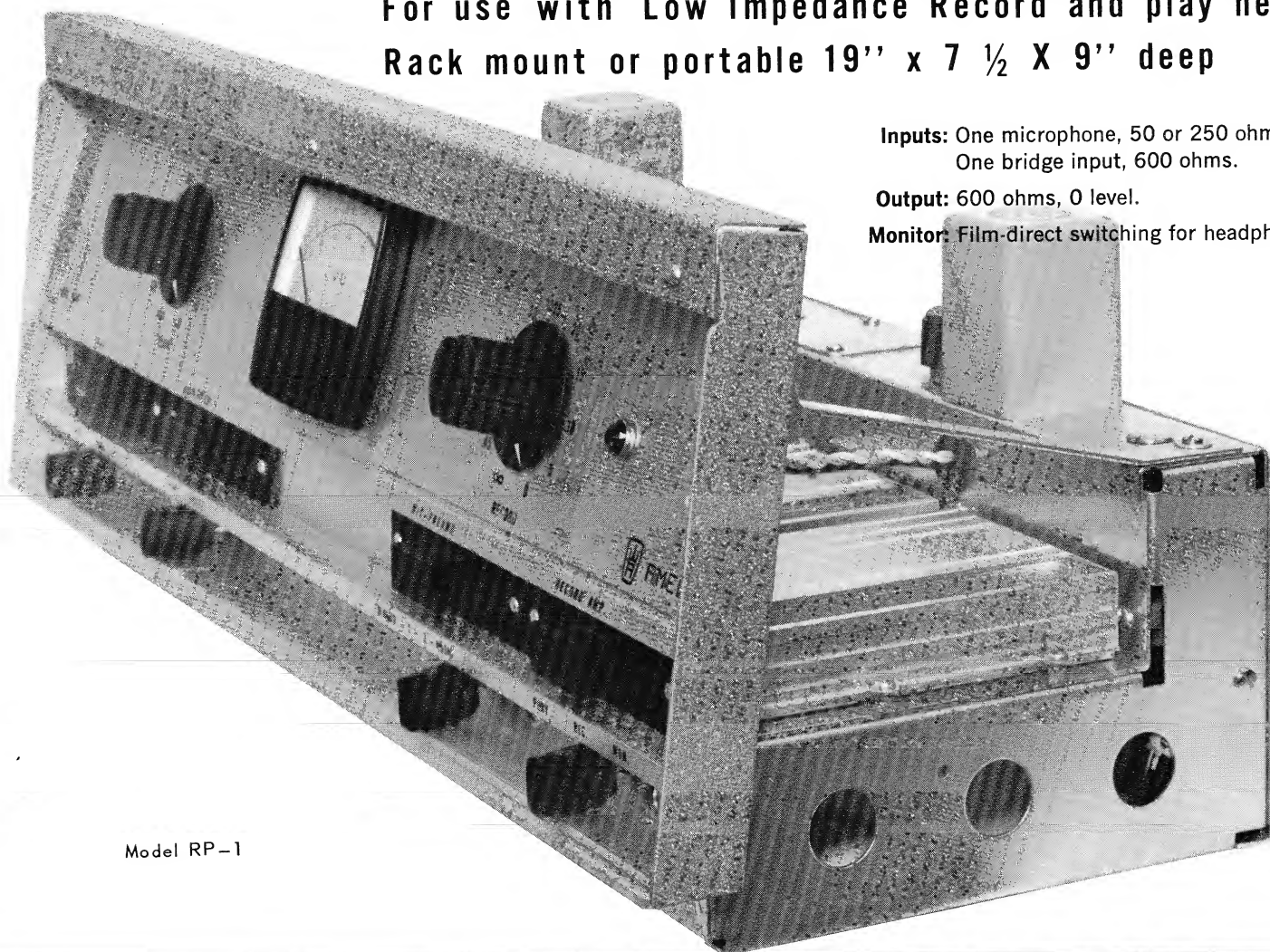
the recorder are threaded and in standby.
erlock and run functions.

ATURE STUDIO CONSOLES

AMEGA

RECORD REPRODUCE AMPLIFIER

For use with Low Impedance Record and play heads
Rack mount or portable 19" x 7 1/2" X 9" deep



Model RP-1

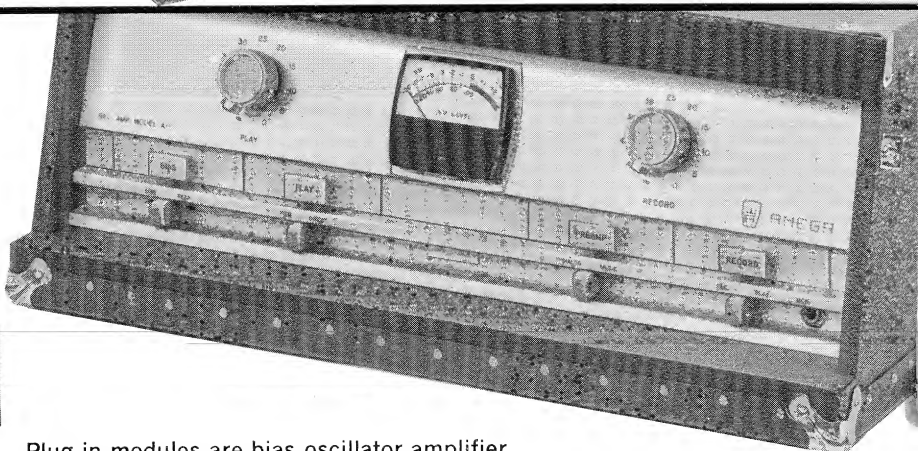
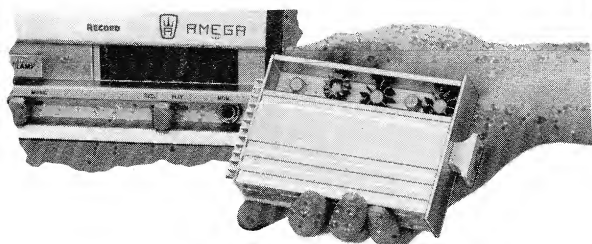
Inputs: One microphone, 50 or 250 ohms.
One bridge input, 600 ohms.

Output: 600 ohms, 0 level.

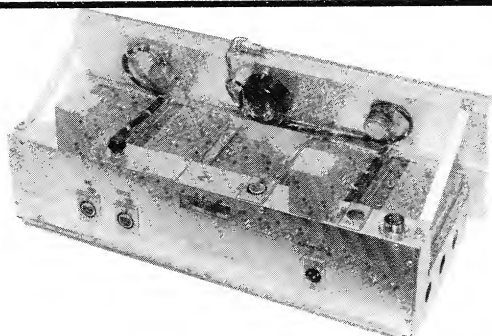
Monitor: Film-direct switching for headphones.

AMPLIFIER

Microphone input channel has dialogue-music equalization. Switch is located on the front panel.



Plug in modules are bias oscillator amplifier, record amplifier, microphone preamplifier and playback preamplifier with gain control.



Rear View Model Amplifier

Both microphone and bridge input receptacles are provided. Unit furnished complete with power supply and Cannon input output receptacles for record and play heads.

AMEGA TWO CHANNEL RECORD AMPLIFIER MIXER

... has two microphone input channels with master gain control. Solid state transistorized amplifiers, bridging inputs for high level signals, output 600 ohms, 0 level. Head phones for monitoring direct or film signals. Transistorized power amplifier for speaker monitor and output.

Amplifier panel has upper recess illumination with lamps for meter and other controls.

V-U meter reads Bias for Record Oscillator.

Amplifier bias oscillator, Record amplifier, Play-back pre-amplifier and Microphone pre-amplifiers plug in the front panel.

Dialogue equalization for each input channel.

All plug in modules for recorder, mixers and re-recorders are interchangeable.

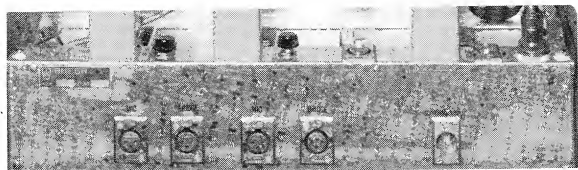
Plug-in amplifiers have special aluminum enclosure; transistors are exposed for ventilation. Circuit board is in groove and can be removed if necessary.

Model RP-2

Inputs: Two microphones, 50 or 250 ohms.
Two bridge inputs, 600 ohms.

Output: 600 ohms, 0 level. Speaker output, 2 watts.

Monitor: Film-direct switching for headphones.



Rear View

Model Amplifier

Record amplifier mixer is complete with input output transformers and separate receptacles for microphone and bridge inputs. System is complete for average studio master recording requirements.





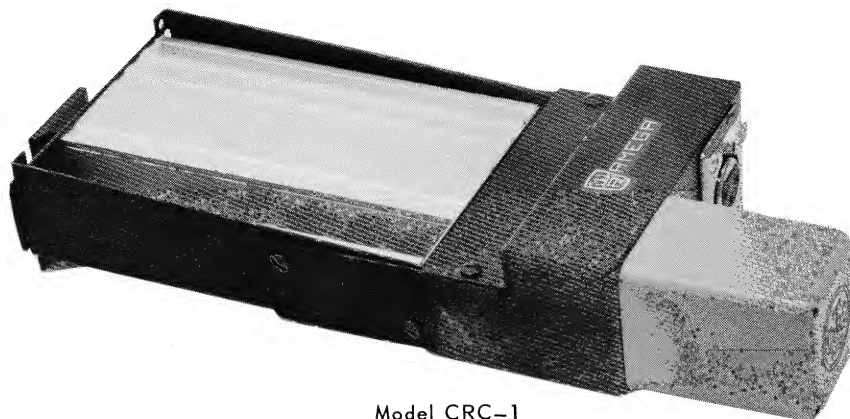
AMEGA

MODULAR STUDIO

MODERNIZE PRESENT EQUIPMENT AND STANDARDIZE THE
BE EQUALIZED FOR ANY STANDARD 16 OR 35MM. BIAS
ONE POWER SUPPLY FOR RECORD, ERASE AND PLAY.

RECORD AMPLIFIER

Module with cradle is complete with input transformer, and input receptacle. For a replacement recording amplifier, unit requires Amega bias oscillator.

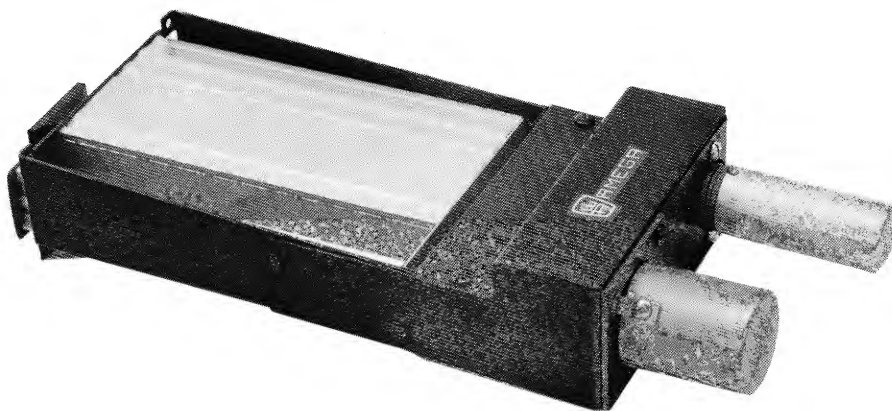


Model CRC-1

BIAS OSC

The Amega bias oscillator is basic for all magnetic recording applications. Bias current can be adjusted for both low and high impedance heads.

Bias erase module is also available. Special erase head design and adequate erase current permit erasure equal to bulk methods.



Model CBO-1

REPRODUCE AMPLIFIER

Playback pre amplifier is complete with "600 ohm output" and "head input" receptacles. Output through transformer is 600 ohms zero level. Equalizer can be adjusted for SMPTE or other standards. This unit is ideal for achieving constant results where one or more reproducers are employed.



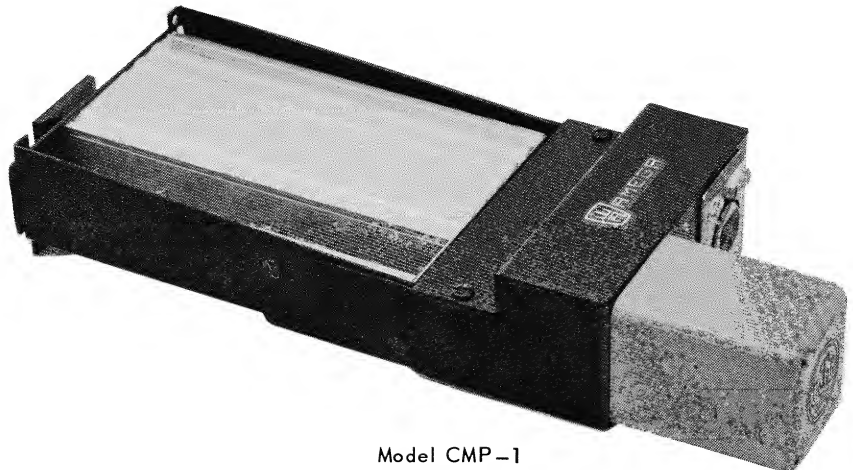
Model CPL-1

AMPLIFIERS FOR MIXERS - RECORDERS DUBBERS CONSOLES LINE AMPLIFIERS

STUDIO AUDIO SYSTEM. RECORD AND PLAY AMPLIFIERS CAN
OSC CAN BE USED FOR RECORD AND ERASE.

MICROPHONE PREAMP

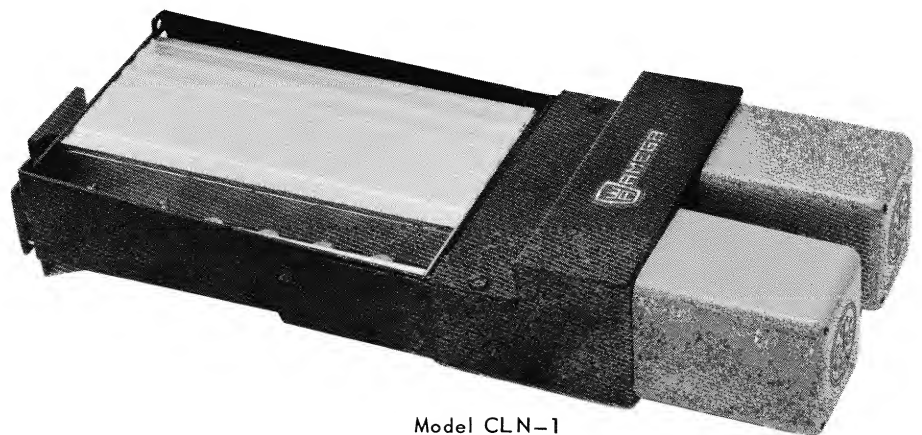
Noise free recording using low level output professional microphone can now be achieved with transistor preamplifiers. Signal to noise ratio -65 db. Gain with input transformer 100 db. 600 ohms attenuators may be connected for interstage gain control.



Model CMP-1

LINE AMPLIFIER

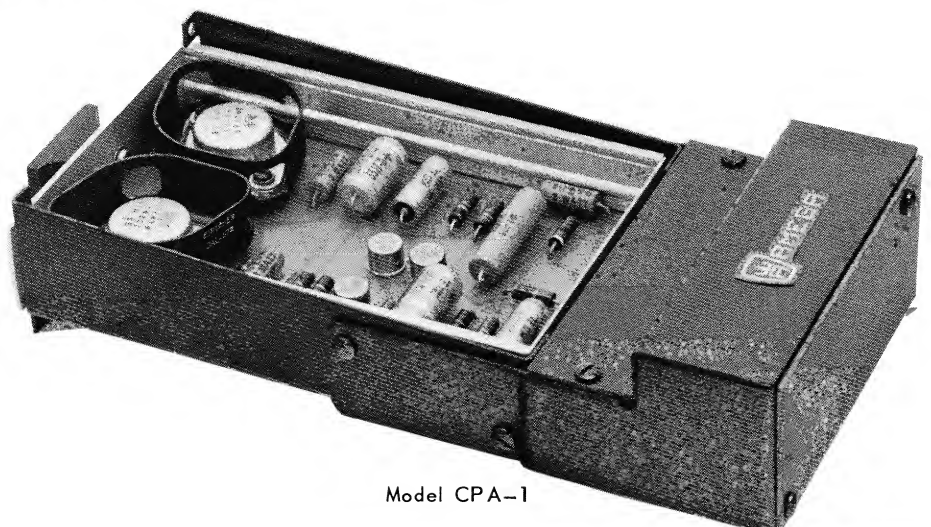
Line amplifier 600 ohms input and 600 ohms output. 45 or 90 db gain. Can be used as booster amplifier for equalizers and mixing networks.



Model CLN-1

POWER AMPLIFIER

Monitor power amplifier has 2 watts output and flat response. Speaker connection 4 to 16 ohms. Unit is ideal for monitoring booth or small screening rooms.



Model CPA-1

PLEASE SEND ADDITIONAL INFORMATION

ON AMEGA MODULAR AMPLIFIER SYSTEMS

Please send additional data:

Record Amplifier_____

Microphone Preamp_____

Reproduce Amplifier_____

Line Amplifier_____

Power Amplifier_____

Please send data on retro fit audio for the following type equipment.

Note: Please list existing studio equipment by model number. Complete instructions for replacement with Amega modular amplifiers will be sent.

Reproducers_____

Mixers_____

Recorders_____

Consoles_____

Accessories_____

TO: _____



AMEGA

The most progressive name in Motion Picture Sound

Manufacturers of Motion Picture Sound Devices

AN AFFILIATE OF OMEGA ENGINEERING COMPANY

11817 WICKS STREET / SUN VALLEY, CALIFORNIA

WARRANTY:

All Amega components are tested before and after assembly. The complete recorder is tested to meet industry standards. All parts have a one year guarantee. Defective transistor boards for bias oscillator, record amplifier, play amplifier and microphone pre-amplifier will be replaced as complete boards by your dealer or the factory.

Defective mechanical and electronics components will be replaced on exchange basis. Replacement parts will be shipped air mail without charge to the customer to any part of the world. Record and play heads are guaranteed except for normal wear. No claims under the guarantee will be entertained if parts have been misused or abused.



OMEGA SOUND SYSTEMS

ACCESSORIES

A Message from the

"AMEGA WORKSHOP"

The Amega Workshop was organized to discuss every day problems encountered within the field of motion picture sound. Open panel sessions are held weekly, with personnel from the Amega Engineering Department and guest panelists with field and studio experience participating.

The real challenge for the average producer is to produce a film within the minimum budget required to meet the expected schedule. Proper use and intelligent upgrading of existing equipment are important factors in meeting this challenge.

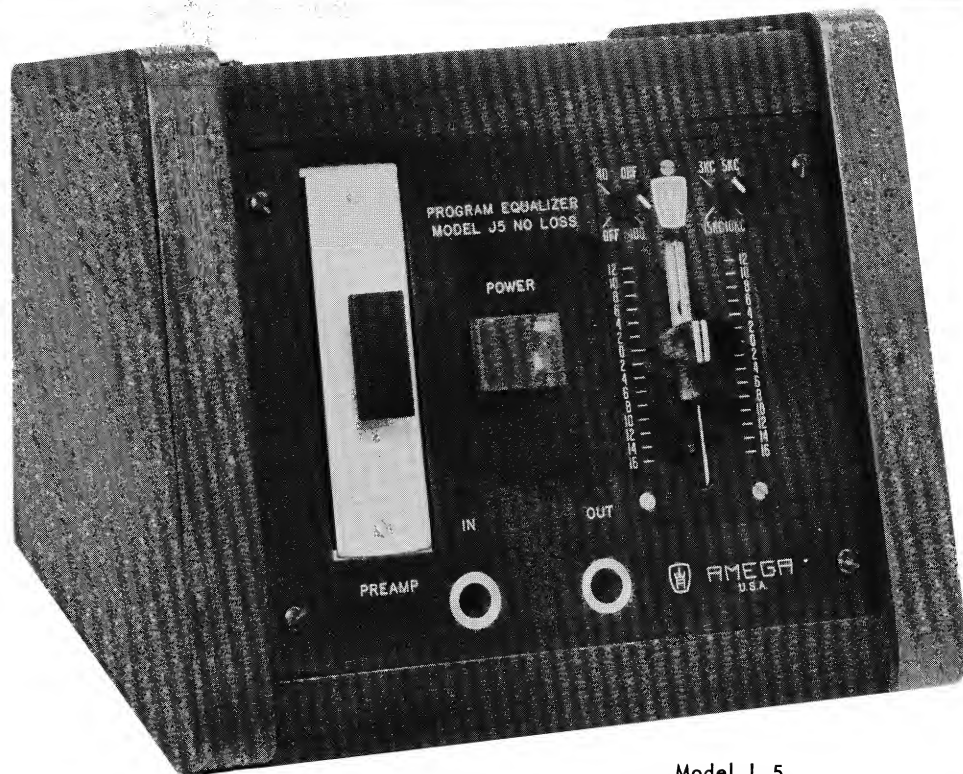
The Amega Workshop is dedicated in its endeavor to meet the needs involved in producing an acceptable sound track. We invite you to write in your questions or, if you are in Los Angeles, you are welcome to join us in one of our sessions.

AMEGA MIXING AND DUBBING

The equipment described in this catalog will assist in the mixing and dubbing processes. Equalization is an important factor since many acoustical variations are encountered during the recording of the dialogue. Amega provides mixers, consoles, equalizers and dubbers which are all compatible to the final composite sound track.

AMEGA NO LOSS EQUALIZER

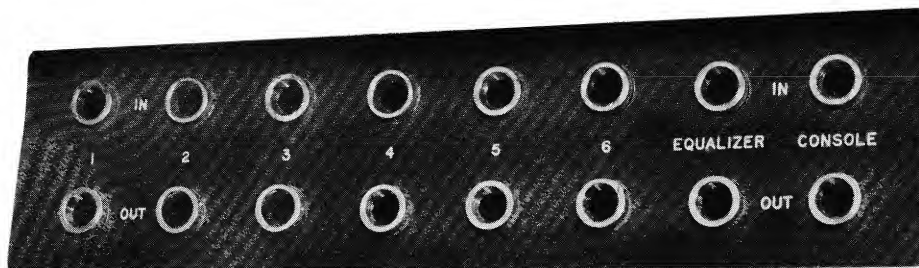
The program equalizer lends itself to balancing the quality of dialogue, music and effects. Both high and low frequencies can be boosted or attenuated. The "no loss" feature means there is no "insertion loss" as found in the usual equalizer. Boost and attenuation can be accomplished without loss in gain during the mixing process.



Model J-5

AMEGA PATCH BAY

The use of the patch bay can simplify interconnecting various elements in the audio chain. It provides versatility, especially when equalizers and filters are used. Auxiliary equipment can be interconnected with minimum effort.



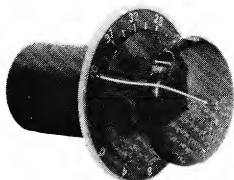
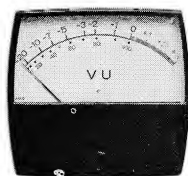
Amega provides several patch bay combinations or will custom fabricate to your particular needs.

Write the Amega Workshop listing the equipment involved and the input output impedances if known. Quotations will be made immediately.

AMEGA

CONSOLE COMPONENTS

The components used in Amega mixers and consoles are now made available to the producer and sound studio. The various units have been tested in actual operation and are universally compatible with most auxiliary equipment. Attenuators are available for both low level and high level mixing. The Amega VU meter was designed with dampening for motion picture recording. The attenuators, transformers and equalizers were designed to meet studio motion picture sound standards. Write for price quotations and directions for installation.

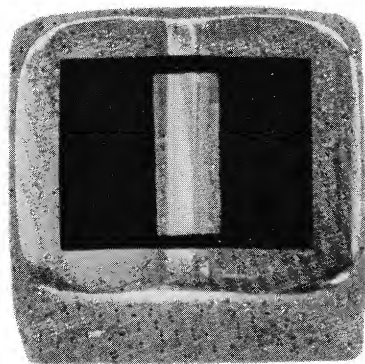


AMEGA

LOW IMPEDANCE HEADS

The use of low impedance heads is now universal in modern equipment.

Many producers and studios have "retro fit" their existing equipment with Amega amplifiers and low impedance heads. These units are available in standard 200 mil tracking and multi-channel configurations. Adapter plates and brackets are available for most contemporary equipment. Your recorders and dubbers can be equipped with removable plug-in low impedance head assemblies which are compatible with all Amega model amplifiers.



Amega head assemblies and Amega interchangeable amplifiers can be adapted to all type transports, both 16 and 35 MM. Plug-in equalizers are also available.



AMEGA

DISTRIBUTOR & SYNC-SELSYN INTERLOCK SYSTEM

Sync-Selsyn Interlock is becoming more popular because there is no distributor required and no complex wiring. The Amega Model C-6 control panel can be used with three dummies, projector, recorder and remote footage counter.

Each element in the system has separate controls so that any two or more units can be interlocked. Any unit can be removed from the line during interlock. For example, if one of the dummies should run out the operator can switch motors from the line without disturbing the other units in operation.

The Amega "vari-control" is used with the sync-selsyn system. The frequency input to the sync drive motor is changed so that the sound track can be advanced or retarded one frame per second. Music, dialogue and sound effects can be sync'ed to each other during operation.

The only significant difference between the sync-selsyn and the distributor system is slow start. The D-S-1 distributor in combination with the D-6 distributor control panel enables the operator to bring all units "up to speed" slowly and have all the units "coast down" simultaneously.

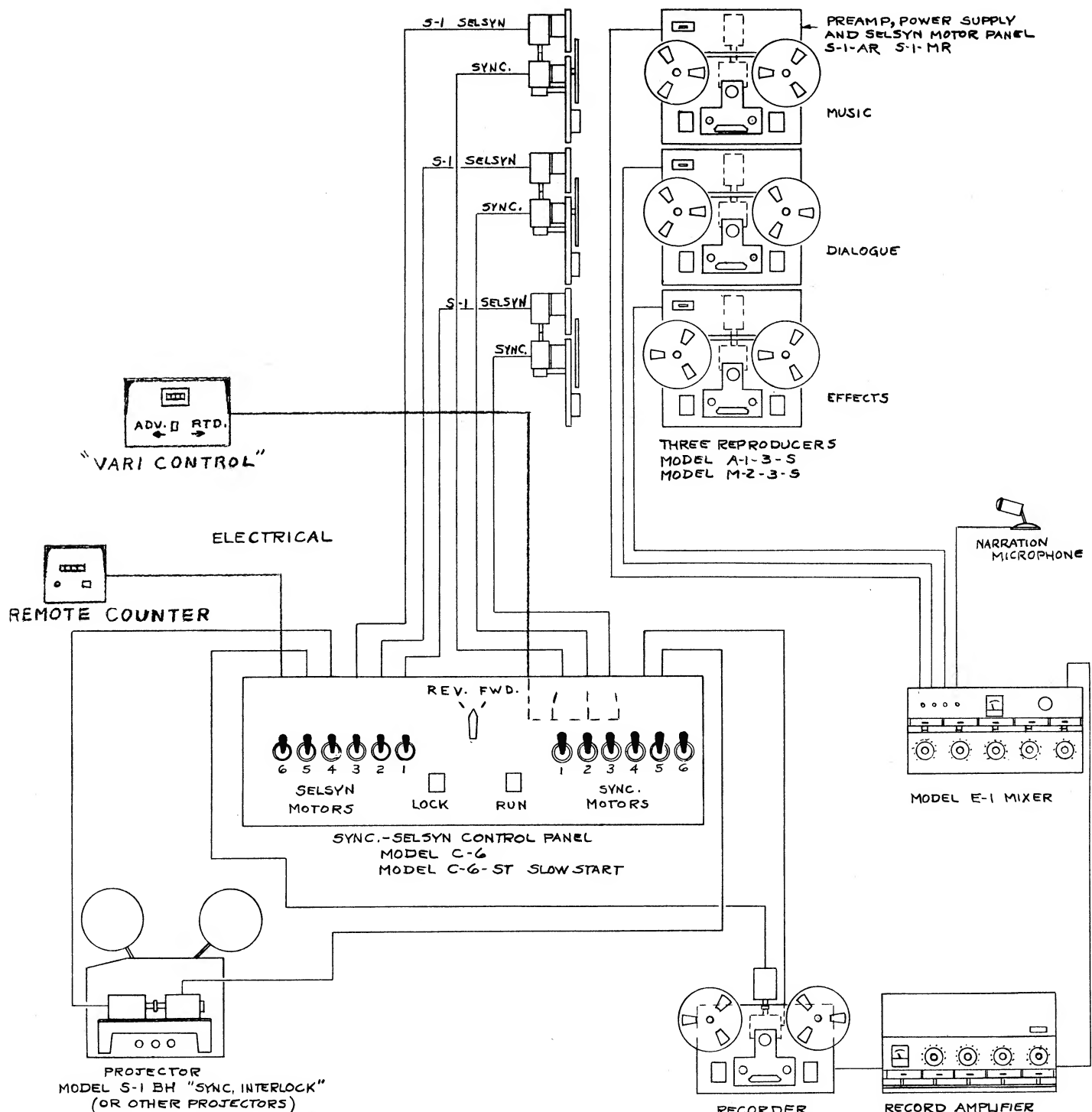
With the distributor system the sync motors are not used. The slow start is necessary because the interlock motors will not start instantly since they are "followers" to the distributor "driver." The sync-selsyn system requires that all units have the synchronous and selsyn motors coupled together. Since all selsyns are electrically locked they control the starting and run of each synchronous motor. All units in the system remain locked together until taken off the line. Slow start if desirable for sync-selsyn can be accomplished by use of a rotary transformer. The 6-6 ST slow start control panel is available with this feature.

The S-1 Amega interlock motor is designed for 110 volts single phase input for excitation. The secondary voltage generated by the motor is 110 volts three phase. The motor is applicable for coupling to drive speeds of 900, 1200, 1440, 1500 and 1800 R.P.M.

All Amega recorders and dummies are equipped with synchronous motors. Selsyn and interlock attachments are available for all models both for rack mount and portable units. A portable recorder can do double duty with use in the field and for re-recording in the studio. The selsyn attachment can be removed when not in use.

Projector attachments are available both sync-selsyn and interlock. Installation has been simplified since each motor is equipped with plug ready for inter-connection to the control panel. Extension cables are available in sections of 10 feet complete with plugs. No complex wiring is required.

SYNC-SELSYN INTERLOCK SYSTEM



"SYNC-SELSYN"

STUDIO LAYOUT FOR RECORDING,
DUBBING AND RE-RECORDING.

EQUIPMENT SHOWN —

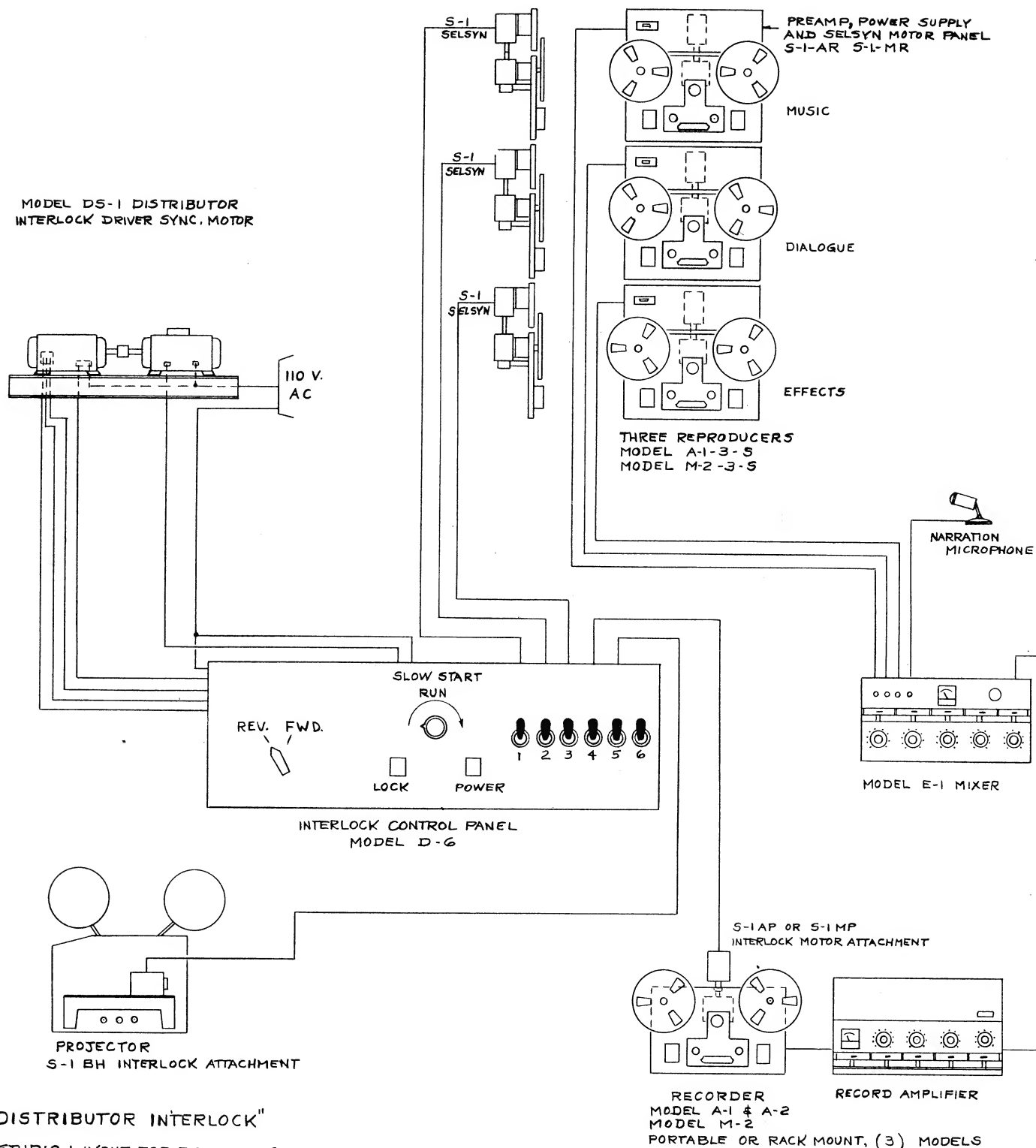
M-2-3-5 THREE POSITION DUBBER WITH
THREE INTERLOCK MOTOR ATTACHMENTS.
C-6 SYNC-SELSYN CONTROL PANEL.
M-2 RECORDER (PORTABLE OR RACK MOUNT).
E-1 MIXER (FOR PORTABLE OR STUDIO).
S-1 BH INTERLOCK ATTACHMENT WITH SYNC-MOTOR
FOR PROJECTOR. CODE S-1-BH "SYNC-INTERLOCK".
1-(ONE) COMPLETE SET OF INTERCONNECTING CABLES
SUPPLIED BY "AMEGA" FOR ABOVE SYSTEM.

NOTE:

- 1, REMOTE CONTROL FOR ALL UNITS, FORWARD OR REVERSE.
- 2, TWO OR MORE UNITS CAN BE LOCKED FOR "SYNC-SELSYN" OR INDIVIDUAL UNITS CAN RUN "SYNC" ONLY.
- 3, ALL "AMEGA" RECORDERS AND DUMMIES ARE EQUIPPED WITH REMOTE PLUGS FOR MOTORS.
- 4, INTERCONNECTING WIRING IS ACCOMPLISHED WITH CABLES COMPLETE WITH PLUGS. CABLES ARE SUPPLIED IN 10 FT. LENGTHS.
- 5, CONTROL PANEL HAS RECEPTACLES FOR SIX SELSYN INPUTS AND SIX SYNC-MOTOR INPUTS.



DISTRIBUTOR INTERLOCK SYSTEM



"DISTRIBUTOR INTERLOCK"

STUDIO LAYOUT FOR RECORDING,
DUBBING AND RE-RECORDING

EQUIPMENT SHOWN —

M-2-3-S THREE POSITION DUBBER WITH
THREE INTERLOCK MOTOR ATTACHMENTS.
D-6 DISTRIBUTOR CONTROL PANEL.
M-2 RECORDER (PORTABLE OR RACK MOUNT).
E-1 MIXER (FOR PORTABLE OR STUDIO).
S-1 BH INTERLOCK ATTACHMENT FOR PROJECTOR.
1 (ONE) COMPLETE SET OF INTERCONNECTING CABLES
SUPPLIED BY "AMEGA" FOR ABOVE SYSTEM.

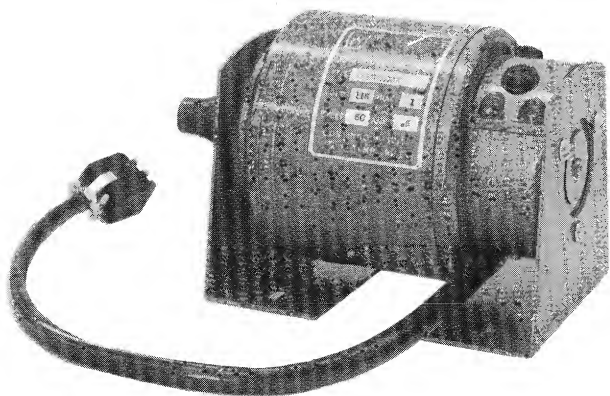
NOTE:

1. CONTROL HAS ROTARY TRANSFORMER FOR SLOW START OF ALL UNITS
2. ANY UNIT CAN BE REMOVED FROM THE LINE WITHOUT DISTURBING THE OTHER UNITS IN OPERATION
3. UNITS OPERATE "SYNC." FOR NORMAL OPERATION
4. INTERCONNECTING WIRING ACCOMPLISHED WITH CABLES COMPLETE WITH PLUGS. CABLES ARE SUPPLIED IN 10 FT LENGTHS
5. CONTROL PANEL HAS RECEPTACLES FOR SIX INTERLOCK MOTORS



INTERLOCK ACCESSORIES

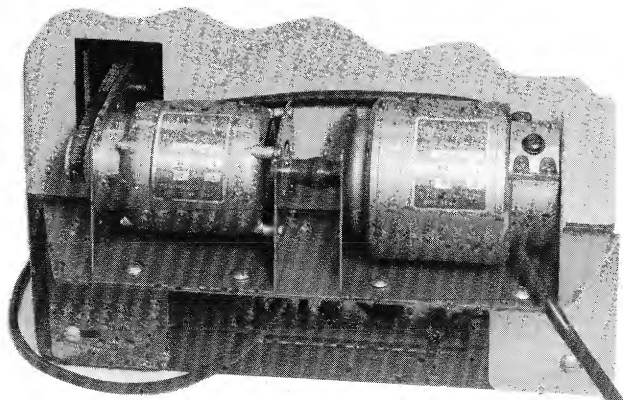
SYNC—SELSYN AND DISTRIBUTOR



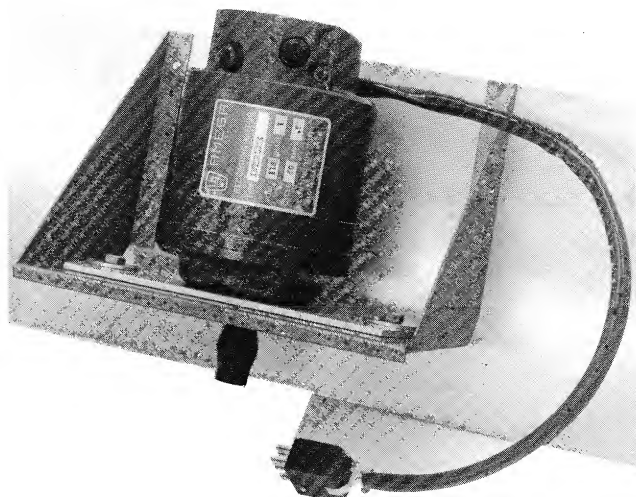
S-1 INTERLOCK MOTOR, 110 VOLT SINGLE PHASE EXCITATION, 110 VOLT THREE PHASE SECONDARY.



S-3 INTERLOCK MOTOR, 220 VOLT 3 PHASE EXCITATION, 220 VOLT 3 PHASE SECONDARY.

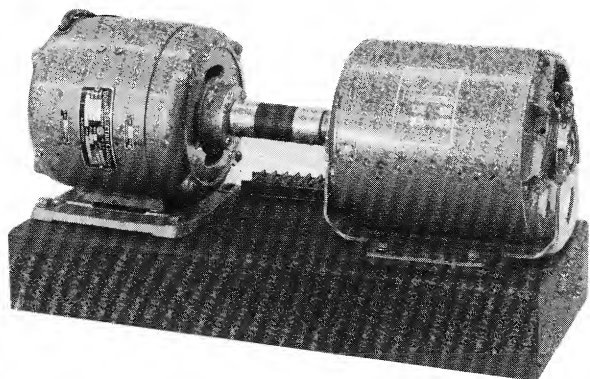


S-1 BH INTERLOCK ATTACHMENT FOR BELL AND HOWELL PROJECTOR WITH SYNC MOTOR "SYNC INTERLOCK".



S-1 AR INTERLOCK ATTACHMENT FOR RACK MOUNT DUBBERS AND RECORDERS.

S-1 MR SAME AS ABOVE FOR M-2 DUBBER AND RECORDERS.



S-S-1 DISTRIBUTOR

HAS 110 VOLT 50 OR 60 CYCLE INPUT, SYNCHRONOUS DRIVE MOTOR AND "INTERLOCK DRIVER". FOR USE WITH D-6 CONTROL PANEL.

D-S-3 SAME AS ABOVE FOR 3 PHASE INPUT 50 OR 60 CYCLE.

PORTABLE POWER SUPPLIES

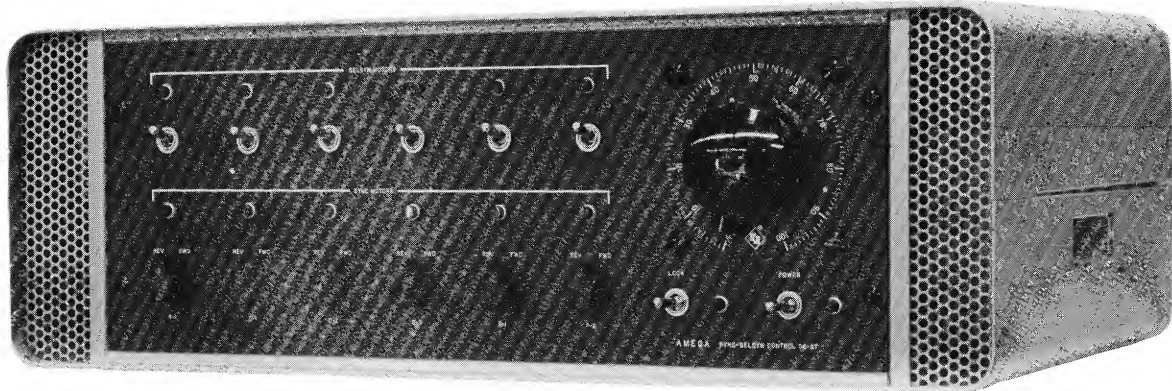
Portable power supplies are available for use with all Amega model recorders. Cameras with synchronous motors provide the interlock between recorder and camera since both units depend on a common power and frequency source.

Write for quotations. Please list camera and recorder combinations.

MADE IN U.S.A.

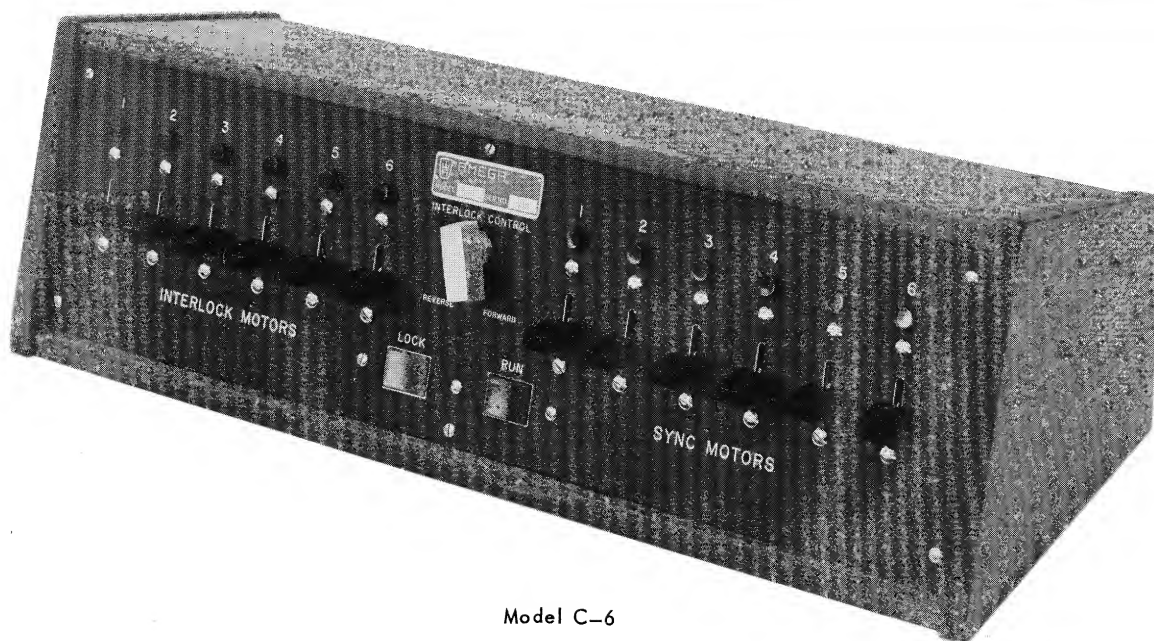
AMEGA INTERLOCK CONTROLS

The Model C-6-ST Control Panel can be used with either sync-selsyn or distributor interlock. With sync-selsyn the motors are energized from a rotary transformer which increases the input voltage. As a distributor control, the "driver" sync motor voltage is increased gradually to accomplish the slow start.



Model C6-ST

The recorder, three dubbers, projector and interlock footage counter can be selectively controlled.



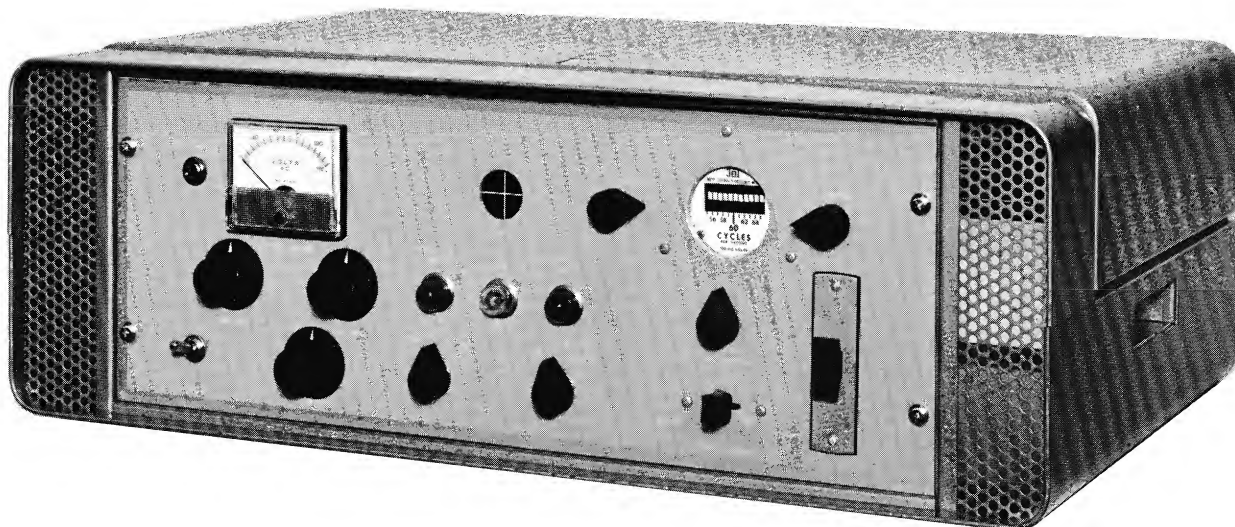
Model C-6

The Amega Sync-Selsyn Interlock system provides the facility for individual control for any two of six different units. Each Amega recorder or dubber is equipped with an output plug ready for connection to the control panel. All interlock motor attachments are supplied with plugs ready for installation.

The Model C-6 Control can be used with the Amega Vari-Control system and is compatible with all interlock attachments. Adaptation to existing equipment is usually possible. Write the Amega Workshop for quotations and instructions.

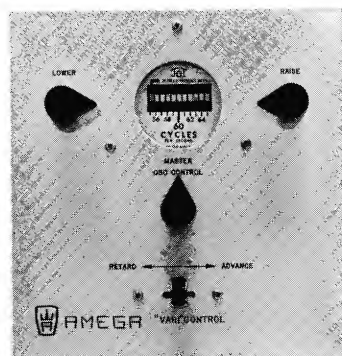
AMEGA TRANSOLVER SYSTEM

The use of 1/4" tape as the field recording medium requires the use of a transfer amplifier or resolver. The Amega "Transolver" is compatible with all the pulse-sync system requirements. The input consists of an Amega interchangeable module to amplify the pulse-sync signal to the power amplifier. The unit compensates for drop outs, phase shift and cross talk. An Electronic circuit switches to line when sync-pulse signal is inadequate to drive amplifier. "Vari-control" permits advancing and retarding the transfer recorder synchronous motor for adjusting speed variations.



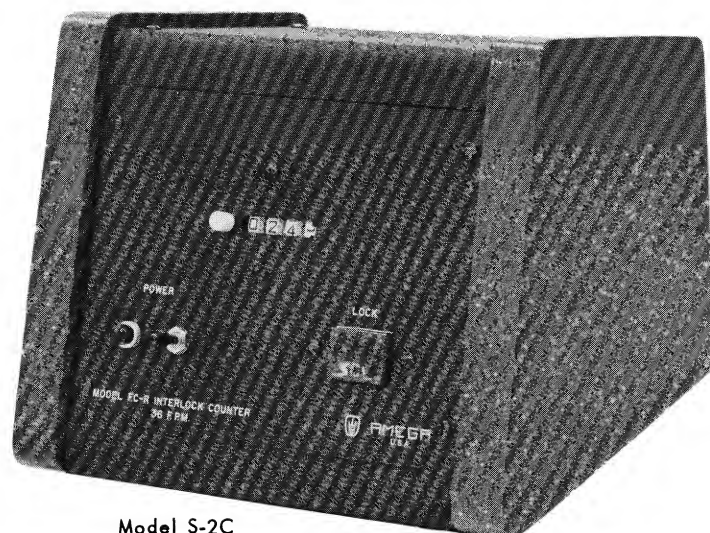
Model ATS

AMEGA "VARI" CONTROL



Model AVC

The "Vari-Control System assists in the dubbing process when using the sync-selsyn system. The individual dubber can be controlled to advance or retard music, dialogue and effects. This is done while the equipment is in operation, and the adjustment can be made from scene to scene.



Model S-2C

AMEGA

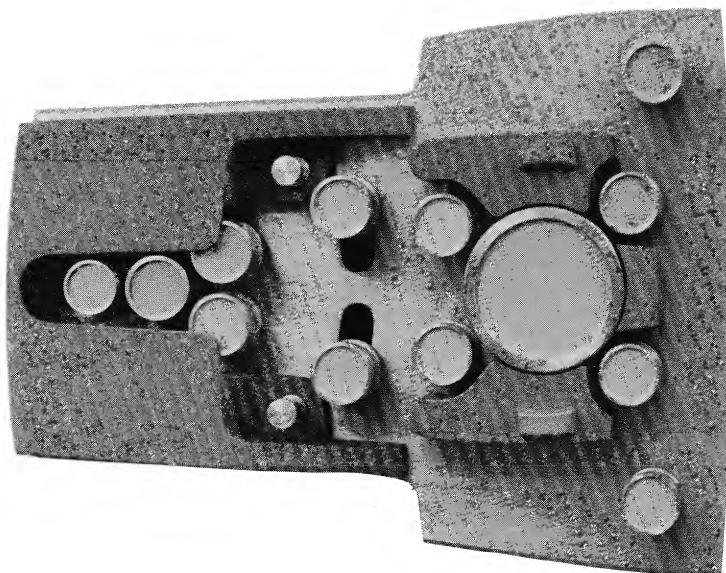
INTERLOCK FOOTAGE COUNTER

The Interlock Footage Counter lends itself to the narration and sound effects syncing from scene to scene. The unit is noiseless and can be used adjacent to the narration microphone or installed at the mixer or console. Two miniature selsyn motors, four digit push button reset footage counter and illuminated push-button lock switch comprise the console assembly.



AMEGA

FILM TRANSPORTS

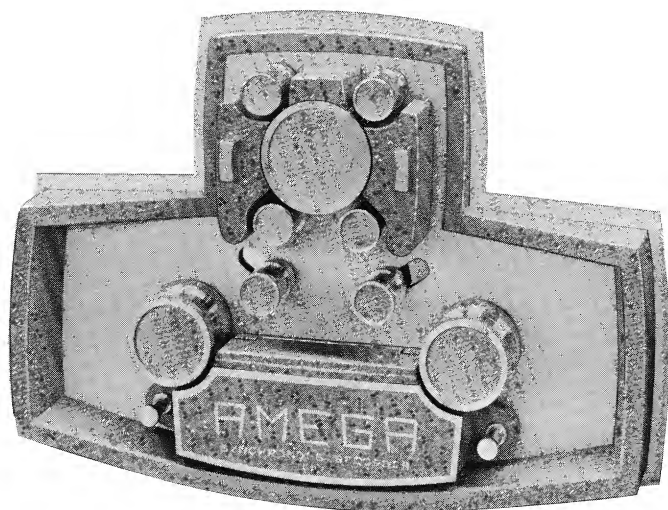


Model AIM-6

M-6 TRANSPORT

16-17-35 MM OR COMBINATION

Amega Instrumentation Type Drive available for 16/17½/35 MM or combination 16-17½ MM magnetic and 16 or 35 MM optical recording and reproducing.



Model ATM-2

M-2 TRANSPORT

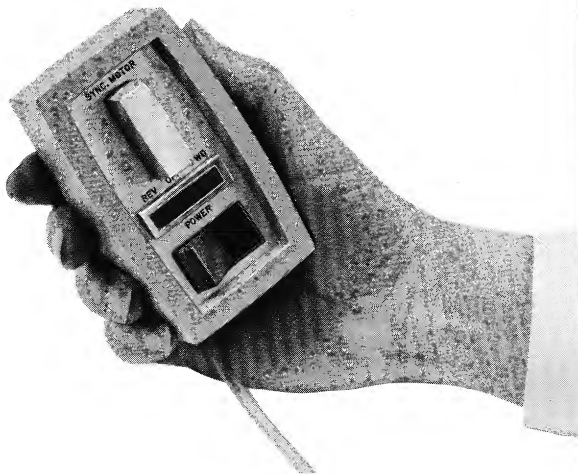
16-17-35 MM OR COMBINATION

Amega Film Transports are used in the computer field as well as for motion picture recording. Units are supplied complete with synchronous motor and with a wide variety of record play heads. Optical record and reproduce attachments available for 16 or 35 MM.

Flutter and wow for 16 MM is less than .15% total for all frequency bands and less than .1% for 35 MM. All rollers are sealed ball bearings. Transport is supplied with complete mounting instructions and wiring diagrams for forward/reverse switching.

The M-2 Heavy Duty Film Transport was designed for the service studio. The dual fly-wheel principle provides space for erase, record and reproduce heads. The ball bearing filtering system is coupled to a two-way air dampening pot which requires no lubrication. Rollers, film drums and synchronous motor drive have completely sealed ball bearings. Unit is supplied less heads ready for installation complete with diagrams for panel mount and forward/reverse switching. 16 or 35 MM and combination 16-17½-35 MM.

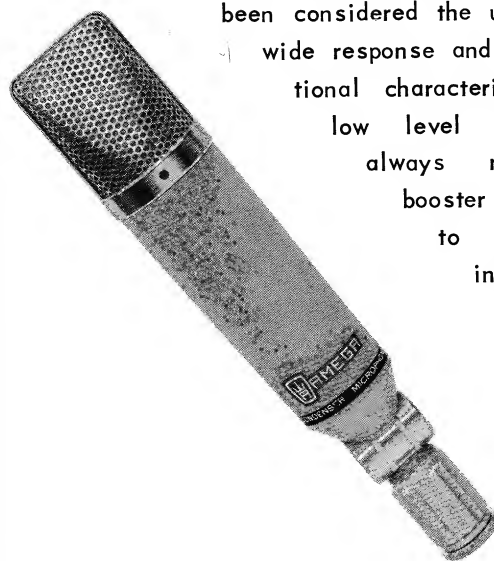
AMEGA REMOTE CONTROL



All Amega recorders are equipped with an output plug for the remote control attachment.

Unit provides forward/reverse switching of drive motor. Standard model includes 25' cable and plugs.

Model RCAM



The condenser microphone has long been considered the ultimate for wide response and true directional characteristics. The low level output has always required a booster amplifier to meet most input requirements.

The Amega Microphone has a built-in transistor amplifier with self-contained 100 hour battery with an output level of -45 db. This high output permits difficult long shots to be picked up with full recorded signal. Directional characteristic minimizes extraneous pickup.

AMEGA CONDENSER MICROPHONE

Amega has listed only a few of the many auxiliary items offered to the motion picture trade. Different choices of speakers, power amplifiers, microphones, etc. are usually based on the producer's present and previous experience. See price list for special "kits" to be used for "retro fit" or new equipment build up through the Amega Workshop recommendations can be made as to the compatibility of existing equipment or the selection of compatible items regardless of manufacturer. The audio complex of equipment as compared to the photographic process is no better than the weakest link in the chain.

See price schedule for listing of other audio and mechanical components.



AMEGA

The Progressive Name in Motion Picture Sound

AN AFFILIATE OF OMEGA ENGINEERING COMPANY

Manufacturers of Motion Picture Sound Devices

11817 WICKS STREET / SUN VALLEY, CALIFORNIA



AMEGA

PROFESSIONAL USERS PRICE LIST

All units are supplied for ISO-SMPTE standard edge track. Center track and CIFF available on special order at same price. Reproducers can be ordered with both edge and center track heads for \$95.00 additional each transport.

Price List No. 4

Effective November 1, 1965

Subject to change without notice.

MODEL A-1 STANDARD RECORDER/REPRODUCER SYSTEM 16 MM ONLY

A-1 Recorder Portable. Complete with mechanical unit and amplifier in one case. Sync motor and two torque motors. \$1495.00

A-1 Recorder Portable with Erase Head and Oscillator. \$1695.00
Note: Head and Oscillator are "built-in" for normal switching.

A-1R Rack Mount Recorder \$1450.00
Same as above for rack mount.

A-1R Rack Mount Recorder with Erase Head and Oscillator. \$1650.00

MODEL A-2 STANDARD RECORDER/REPRODUCER

A-2 Recorder Portable in two cases. Identical to Model A-1 Recorder. \$1550.00

A-2 Recorder Portable with Erase Head and Oscillator. \$1750.00

MODEL A-1 REPRODUCER DUMMY FOR RACK MOUNT

A-1-1 Edge or Center Track. Sync motor and two torque motors. Plug-in preamplifier and power supply. \$1095.00

A-1-1 Edge or Center Track with S-1 Interlock Motor, Bracket and Panel \$1345.00

Special Panel for Preamp and Supply \$ 22.00
Note: Panel furnished when S-1-A interlock is ordered.

TWO REPRODUCERS MECHANICALLY INTERLOCKED MOUNTED IN RACK CABINET

A-1-2 Edge or Center Track. Same as above with two plug-in amplifiers and power supplies. Two special panels. \$2534.00

With one Interlock Motor add \$ 250.00

TWO REPRODUCERS ELECTRICALLY INTERLOCKED MOUNTED IN RACK CABINET

A-1-2-S Same as above with Electrical Interlock. Each reproducer has one S-1-A interlock motor. Units will run "sync" or "sync-selsyn" interlocked with other equipment. \$2890.00

THREE REPRODUCERS MECHANICALLY INTERLOCKED MOUNTED IN RACK CABINET

A-1-3 Edge or Center Track. Same as A-1-1 with three plug-in amplifiers and power supplies. Three special panels. \$3651.00

With one Interlock Motor add \$ 250.00

THREE REPRODUCERS ELECTRICALLY INTERLOCKED MOUNTED IN RACK CABINET

A-1-3-S Same as above with Electrical Interlock. Each reproducer has one S-1-A interlock motor. Units will run "sync" or "sync-selsyn" and interlocked with other equipment. \$4235.00

MODEL M-1 AUTOMATIC SYSTEM RECORDERS

Recorder complete with erase, end of reel shut-off, reverse through sprocket, remote control.

	16MM	17½ & 35 MM	16-35MM Combination
M-1-4 Portable with 4 channel mixer	\$4895.00	\$5100.00	\$5600.00
M-1-1 Portable with 1 microphone input	\$3900.00	\$4100.00	\$4600.00
M-1-4-R Rack Mount same as M-1-4	\$4795.00	\$5000.00	\$5500.00
M-1-1-R Rack Mount same as M-1-1	\$3800.00	\$4000.00	\$4500.00
M-1-SR2 Rack mount two track with zero level inputs zero level outputs	\$4800.00	\$5200.00	\$5700.00
M-1Z Rack mount zero in zero out	\$3700.00	\$3900.00	\$4400.00

MODEL M-1 AUTOMATIC SYSTEM REPRODUCERS

	16 MM	17½ & 35 MM	16-35 MM Combination
M-1-1 Single reproducer rack mount	\$3500.00	\$3700.00	\$4100.00
M-1D2T Two track reproducer rack mount	\$3900.00	\$4100.00	\$4500.00
M-1D2 Double reproducer rack mount	\$7000.00	\$7400.00	\$8200.00
M-1D3 Triple reproducer rack mount	\$10500.00	\$11100.00	\$12300.00

Mechanically interlocked, add \$100.00 each reproducer or recorder.
Electrically interlocked, add \$250.00 each reproducer or recorder.

MODEL M-2 HEAVY DUTY RECORDER REPRODUCING SYSTEM 16 MM - 17 1/2 MM - 35 MM

		16-35 MM Combination
M-2 16 MM Portable recorder	\$1795.00	\$2495.00
M-2 17 1/2 MM Portable recorder	\$1895.00	
M-2 35 MM Portable recorder (17 1/2 - 35)	\$1995.00	

Two microphones channels. Playback amplifier and speaker. Sync motor and two torque motors.
With Erase Head and Oscillator add \$ 250.00
Note: Head and oscillator are "built-in for normal switching"

M-2 RACK MOUNT RECORDERS

Note: All "Combination" units will run 16-17 1/2 and 35 MM

		16-35 MM Combination
M-2 16 MM Rack Mount, same as above	\$1750.00	\$2450.00
M-2 17 1/2 MM Rack Mount, same as above	\$1850.00	

		<u>16-35 MM Combination</u>
M-2 35 MM Rack Mount (17 1/2 -35)	\$1950.00	
M-2 16 MM Rack Mount With RP-3Z zero in zero out record play amplifier.	\$1595.00	\$2295.00
M-2 17 1/2 MM Rack Mount	\$1695.00	
M-2 35 MM Rack Mount (17 1/2 - 35)	\$1795.00	
With Erase Head and Oscillator add	\$ 250.00	

MODEL M-2 REPRODUCER FOR RACK MOUNT

		<u>16-35MM Combination</u>
M-2-1 16 MM Reproducer	\$1295.00	\$1995.00
M-2-1 17 1/2 MM Reproducer	\$1395.00	
M-2-1 35 MM Reproducer (17 1/2 - 35)	\$1495.00	
Complete with playback preamplifier and power supply. Sync motor and two torque motors.		
Special panel for preamp and power supply	\$ 22.00	
Note: Panel furnished when S-1-M interlock is ordered		
With Interlock Motor add	\$ 250.00	

TWO REPRODUCERS MECHANICALLY INTERLOCKED MOUNTED IN RACK CABINET

		<u>16-35 MM Combination</u>
M-2-2 16 MM Reproducer	\$2934.00	\$4334.00
M-2-2 17 1/2 MM Reproducer	\$3134.00	
M-2-2 35 MM Reproducer (17 1/2 - 35)	\$3334.00	
Units same as above are mechan- ically interlocked and mounted in 77" rack cabinet		
With one Interlock Motor add	\$ 250.00	

TWO REPRODUCERS WITH INTERLOCK MOTORS MOUNTED IN RACK CABINET

		<u>16-35 MM Combination</u>
M-2-2-S 16 MM Reproducer	\$3290.00	\$4690.00
M-2-2-S 17 1/2 MM Reproducer	\$3490.00	
M-2-2-S 35 MM Reproducer (17 1/2 - 35)	\$3690.00	

Same as above with electrical interlock. Each reproducer has one S-1M interlock motor assembly. Units will operate "sync" or "sync-selsyn" with other equipment. Mounted in 77" rack cabinet.

THREE REPRODUCERS MECHANICALLY INTERLOCKED MOUNTED IN RACK CABINET

		<u>16-35 MM Combination</u>
M-2-3 16 MM Reproducer	\$4251.00	\$6351.00
M-2-3 17 1/2 MM Reproducer	\$4551.00	
M-2-3 35 MM Reproducer (17 1/2 -35)	\$4851.00	
Same as above. Units are mech- anically interlocked mounted in 77" rack cabinet.		
With one Interlock Motor add	\$ 250.00	

THREE REPRODUCERS WITH INTERLOCK MOTORS MOUNTED IN RACK CABINET

		<u>16-35 MM Combination</u>
M-2-3-S 16 MM Reproducer	\$4785.00	\$6885.00
M-2-3-S 17 1/2 MM Reproducer	\$5085.00	
M-2-3-S 35 MM Reproducer (17 1/2 - 35)	\$5385.00	

Same as above with electrical interlock. Each reproducer has one S-1M interlock motor assy. Units will operate "sync" or "sync-selsyn" with other equipment. Mounted in 77" rack cabinet.

FMEGA MODEL M-3 AND M-4 RECORDER AND ACCESSORY PRICE SCHEDULE

M-3	Portable 16 MM Synchronous Recorder Edge or Center Track complete with self-contained reel assemblies, micro- phone mixer, film direct monitor, plug- in modules, less batteries.	\$1695.00
B-5	Battery Pack for Model M-3 Recorder. Battery pack consists of batteries assembled on panel ready for instal- lation into the recorder complete with charger plug. 2 hour operation	\$ 96.00
C-5	Battery Charger. 110 volts 60 cycle input with connector plugs for use with M-3 Recorder or for charging spare battery packs Model B-5. Unit reduces charge voltage when batteries reach proper capacity. Charge time 12 hours max. Complete and ready for operation.	\$ 79.00
M-4	Synchronous Recorder for operation on 115 volts AC. Unit identical to Model M-3 except for frequency generator and 12 volt DC to 115 volt AC converter. Unit will normally be used where 110 volts is readily available.	\$1395.00
D-1	Fiber case with foam rubber lining material for protection of recorder. Unit can be shipped as luggage.	\$ 37.00
E-12	Mixer. Transistorized two channel miniature mixer. Can be worn over- the-shoulder in conjunction with M-3 Recorder or used separately with 200' of extension cable. Standard XL microphone, input plug, strapped 50 ohms, VU meter. Size 6" x 4" x 3 1/2". Complete, less batteries.	\$ 360.00
B-2	Batteries for above. Note: Model C-5 Battery Charger can be used for re- charging nickel cadmium batteries.	\$ 26.00
HH-3-E	200 Mil Edge Track Record or Play Head. Special long life laminations.	\$ 74.00
HH-3-C	Head. Same as above except for center track operation. Record or play head.	\$ 74.00
SP-3	Modular Amplifiers (plug-in type). For microphone preamplifier, record ampli- fier and playback preamplifier, all interchangeable. Per unit.	\$ 91.00
CY-1	Modular 60 Cycle Divider Plug-in Type.	\$ 88.00

OS-1-3 Modular Oscillator. Plug-in type. \$ 72.00

EX-1200 Studio 1200' Attachment for Model M-3 or M-4 Recorder. Unit consists of bracket and reel spindles, two torque motors, forward-reverse switching for rewind, 110 volt operation. Unit is normally used for transfer or playback within the studio. \$ 285.00

TP-1 Tape to film transfer preamplifier. 60 cycle output from 1/4" tape recorders to pulse sync input of M-3 recorder. Complete with power supply. \$ 280.00

M-5 "STUDIO" RECORDING SYSTEM

M-5 Recorder-Reproducer zero in zero out record-reproducer amplifier, 3000' capacity, push button controls, plug-in module amplifiers, complete with rack cabinet and power supply. 16MM \$2495.00
17 1/2 MM \$2595.00
17 1/2-35MM \$2695.00

With erase head and oscillator add \$ 250.00

M-5-SC 16-35MM Combination 35-17 1/2 MM 45 or 90 fpm, 16MM 36 fpm. Equalization and motor switching on front panel. \$3195.00

M-5-D Reproducer, 3000' capacity complete with playback amplifier, power supply and rack cabinet. 16MM \$1795.00
17 1/2 MM \$1895.00
17 1/2-35MM \$1995.00

M-5-DC 16-35 MM combination Reproducer. 17 1/2-35 45 or 90 fpm 16MM 36 fpm. \$2495.00

M-6 "MONO" RECORDING SYSTEM

SINGLE OR COMBINATION 16-17 1/2-35MM, 36-45-90 FPM

M-6 Single Recorder-Reproducer zero in zero out record reproduce amplifier 2000' capacity, plug-in modules with power supply, complete with rack cabinet. 16MM \$2060.00
17 1/2 MM \$2160.00
17 1/2-35MM \$2260.00

M-6-SC 45-90 fpm Combination speed 17 1/2 MM 45 or 90 fpm, 35 MM 45 or 90 fpm. \$2580.00

M-6-C Combination Recorder 16-35 MM same as M-6 with switching for equalizing 36 fpm to 90 fpm. Two sync motors, two torque motors, complete with power supply and rack cabinet. \$2760.00

Erase head and oscillator add \$ 250.00

M-6 REPRODUCERS

M-6-D Reproducer complete with amplifier, power supply and rack cabinet. 16MM \$1570.00
17 1/2 MM \$1670.00
17 1/2-35MM \$1770.00

With interlock motor add \$ 250.00

M-6-DSC 45-90 fpm combination speed 17 1/2 MM 45 or 90 fpm, 35 MM 45 or 90 fpm. \$2000.00

M-6-DC Combination 16-35 MM Reproducer. Same as M-6-D, complete with switching for equalizing 36 fpm to 90 fpm. Two sync motors, two torque motors, amplifier, power supply and rack cabinet. \$2270.00
With interlock motor add \$ 250.00

M-7 "DUO" RECORDING REPRODUCER SYSTEM

M-7-16 One recorder and one 16MM-16MM \$3370.00
reproducer 16 MM to 16 MM. 35MM-35MM \$3570.00

One complete recording system with zero in zero out amplifier for record and reproduce. One reproducer with complete playback amplifier, power supply and rack cabinet. An ideal transfer system, two sync motors and four torque motors.

Note: Both units can be used as reproducers.

With erase head and oscillator add \$ 250.00

M-7-M As above, mechanically interlocked. 16MM \$3470.00
35MM \$3670.00

M-7-E1 Electrically interlocked 16MM \$3700.00
with one selsyn motor 35MM \$3900.00

M-7-E2 Electrically interlocked 16MM \$4050.00
with two selsyn motors 35MM \$4250.00

M-7 "DUO" COMBINATION SYSTEM

M-7-65 One Recorder 16 MM or 35 MM and one Reproducer 16 or 35 MM for transfer of 35 to 16 MM or 16 to 35 MM. Complete with record amplifier (use for either 16 MM or 35 MM) and one reproduce amplifier use either for 16 MM or 35 MM. Each unit has record and play heads, switching for equalizing 36 fpm or 90 fpm, two sync motors, four torque motors. 35 MM unit will record and reproduce 17 1/2 MM. Both units can be used as reproducers. \$4000.00

M-7-65-2 Same as above one 16MM unit one 35MM unit. Two complete record reproduce amplifiers; units can be used as two reproducers. \$4575.00

M-7-C Two combination 16-35 MM Recorder-Reproducers. Two complete record-reproduce amplifiers equalization switching. \$5175.00

Above system mechanically interlocked add \$ 100.00

With one selsyn motor add \$ 250.00

With two selsyn motors add \$ 500.00

For 45 fpm speed change on 35 MM unit add \$ 300.00

Note: Each of the above units has its own sync motor.

M-7 REPRODUCING SYSTEM

M-7D16 Two 16 MM Reproducers mechanically interlocked, complete with two play amplifiers and power supplies and rack cabinet. \$2800.00

M-7D35 Two 35 MM Reproducers mechanically interlocked.	\$3200.00
M-7D17 Two 17 1/2 MM Reproducers mechanically interlocked.	\$3000.00
M-7DC One 16 MM and one 35 MM Reproducer mechanically interlocked.	\$3100.00
M-7D65C Two 16-35 Combination Reproducers complete with 16-35 heads, two play amplifiers. Equalizing switching and speed switching on panel.	\$4200.00
All 35MM units will also reproduce 17 1/2MM.	
45 fpm for 17 1/2MM add	\$ 300.00
One interlock motor add	\$ 250.00
Two interlock motors add	\$ 500.00

Note: Each of the above units has its own sync motor.

M-7 RECORDER AND THREE REPRODUCERS

M-7RD3M One recorder and 16MM	\$6170.00
three reproducers complete 17 1/2MM	\$6570.00
in 77" rack cabinet. One 35MM	\$6970.00
recorder-reproduce amplifier, three reproduce 16-17 1/2-35MM	
pre-amplifiers with power supplies. Top L. H. unit is the recorder.	Combination \$8775.00

Equalization & motor switching on front panel.

Erase head and oscillator add	\$ 250.00
One interlock motor add	\$ 250.00
Four interlock motors add	\$1000.00

Note: Each unit has its own sync motor.

AMEGA ACCESSORIES

EQUALIZERS

J-1 Slide type low and high frequency boost and attenuation. 10 positions for each section.	\$ 329.00
J-5 Equalizer same as J-1 except no gain loss. Complete with preamp and power supply. Desk top case.	\$ 499.00

REELS

R-6 Split apart reel 600 ft. 16 MM Aluminum with steel hub.	\$ 10.95
R-12 Split apart reel 1200 ft. 16 MM Aluminum with steel hub.	\$ 13.95
R-35 Same as above for 35 MM	\$ 15.95
RH-16 Aluminum hub 4 1/2 dia. 16MM	\$ 1.95
RH-35 Aluminum hub 4 1/2 dia. 35MM	\$ 3.95

MIXERS

E-1 4 Channel Mixer for portable or studio use. 4 microphone channel inputs and bridge inputs. Dialogue equalization for each channel. Indicator lights for dialogue position. Talk back microphone. Dubbers and microphones can be mixed simultaneously. Output 600 ohms zero level.	\$ 895.00
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E-12 2 Channel Portable Miniature can be worn over shoulder complete with VU meter, batteries, rechargeable.	\$ 386.00
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CONSOLES

E-3 Studio 6 channel with patch bay, patch cords and A-B monitor amplifier. 3 microphone inputs, 3 zero level inputs, precision attenuator used on all channels, VU meter, line amplifier. Console output 600 ohms zero level. Note: One or more J-1 slide type equalizers can be added at \$329.00 each. For no loss in gain when using J-1. Add \$97.00 for each LN-1 module amplifier. Extra patch bay requirements \$75.00.	\$2895.00
E-4 Same as above with all inputs zero level.	\$2595.00
E-5 Same as E-3 with three 3J-1 slide equalizers and three 3-LN-1 module amplifiers. Note: Equalizer can be patched in after any channel or one unit used as program equalizer through output of console to recorder. Advise the Amega Workshop of your requirements. Consoles will be made to special applications.	\$3500.00

Amega will supply any component used in the "E" type mixers or consoles. Many producers and studios build their own consoles with assistance from the "Amega Workshop".

AMEGA INTERLOCK FOOTAGE COUNTER

S-2C Interlock Footage Counter complete with two miniature selsyn interlock motors. Instruction for installation. Note: Driver selsyn will be installed at factory when ordered with recorder or dubber. Can be used next to microphone.	\$375.00
HDD Amega Studio Bulk Eraser 1200' rolls 16 or 35 MM extra heavy duty.	\$150.00
HHB Amega Studio Speaker bass or high frequency horn. Six 24" x 24" x 36" high 16 ohms.	\$478.00
CCM-1 Amega Condenser Microphone Studio or Location	\$287.00
Wind Screen	\$ 35.00
Shock Mount	\$ 42.00

AMEGA TRANSOLVER

ATS Amega Transolver. Unit has Amega interchangeable preamplifier to boost pulse sync signal from 1/4" tape. Power amplifier will drive average synchronous motor. Unit also contains "vari" control for advancing or retarding dubber or recorder.	\$895.00
ATA Transfer Amplifier for driving synchronous motor or for use with "vari" control.	\$695.00

AMEGA "VARI" CONTROL

AVC Amega Remote "Vari" Control. Unit used with ATS or ATA to advance or retard recorder or dubber.	\$350.00
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ASPP Amega sync-pulse generator for projector to M-3 Recorder unit will lock for sync play back with picture. \$300.00

RCAM Remote control for all models, recorders and dubbers. \$ 97.00

FMEGF "INSTANTANEOUS SYNC"

FAP "Instantaneous Sync" with Erase Head and Remote Control. Unit used for "post sync" such as foreign dialogue conversion. Supplied complete with erase head. Installation instructions. Please specify model number of recorder. \$425.00

FAP Erase Attachment can be added to Amega and other recorders. Complete erasure accomplished. Unit complete with bias oscillator and erase head. Please specify model number of recorder. \$325.00

PPST Portable Power Supply with "tuned fork". 115 volts 50 or 60 cycle. \$395.00

PPSL Large Portable Power Supply. 500 watts output. 50 or 60 cycle. \$670.00

CONSOLE COMPONENTS

ATM Amega Special Transformer for microphone input 50-250 600 ohms \$ 26.00

ATO Amega Special Transformer for output 600 ohms \$ 24.00

AA Amega Special 600 ohm Attenuator to control line or microphone inputs, also master gain control 2 db steps (no detent) complete with scale and knob. \$ 34.00

APB Amega "Patch Bay" as shown, six inputs, equalizer in & out, complete with jacks. \$150.00

AMV Amega VU Meter dampened for motion picture recording. \$ 44.00

AAS Amega Illuminated Push Button Control for 110 V AC control 5A rating \$ 6.00

ASF Amega Filter for removing street and other background noise (no loss in gain) \$250.00

FMEGF MECHANICAL TRANSPORTS

AIM-6 Amega M-6 Film Transport 16MM \$610.00
(less heads) complete with sync 17 1/2 MM \$690.00
motor, complete instructions 35MM \$750.00
for panel mounting.

ATM-2 Amega M-2 Film Transport 16MM \$750.00
(less heads). 17 1/2 MM \$790.00
35MM \$850.00

Forward Reverse Switch \$10.00 wired complete
Torque motors for above \$90.00 each with condensers
Torque control switch \$10.00 wired complete

Ideal for magnetic film recorder reproducer or optical film recorder or reproducer.

MECHANICAL COMPONENTS

AFC Amega Footage Counter 4 digit push button reset one to one ratio. \$ 18.00

AS16 Sprocket 20 tooth for driving at 72 rpm for 36 fpm 3/8 hole. \$ 60.00

AS17 Same as above for 17 1/2 MM (32 tooth) drive 180 rpm 90 fpm, 90 rpm 45 fpm. \$ 60.00

AS35 Sprocket for 35 MM 32 tooth 3/8 hole 180 rpm for 90 fpm. \$ 95.00

AMO16 Motor sync with Amega gear head output shaft 72 rpm, 3/8 dia. for 20 tooth sprocket drive 16 MM 36 fpm. \$225.00

AMO35 Motor sync with Amega gear head output shaft 180 rpm, 3/8 dia. for 32 tooth sprocket drive 35 MM 90 fpm. \$225.00

AMOT Torque Motor with condenser. \$ 90.00

Write the "Amega Workshop" for other mechanical parts you may require.

FMEGF 1/4" TAPE REPRODUCER FOR TRANSFER TO FILM

ATAP Amega Studio 1/4" Tape Reproducer direct sync motor drive, two torque motors. Any type pulse head may be installed, unit complete with playback preamp (Amega interchangeable module) Speed 7 1/2-15 IPS. For use with Amega Transolver. Rack mount panel size 12 1/2 x 19. Remote control stop start. With Transolver, unit can be speed controlled. Specify type pulse head used on recorder. \$900.00

FMEGF RECORDING AMPLIFIERS COMPLETE FOR RACK MOUNT

RP-1 Recording Amplifier with single microphone input complete with playback pre-amplifier, bias oscillator, and power supply. \$695.00

RP-1Z Recording Amplifier same as RP-1 except without microphone preamp. Input 600 ohms zero level. Output 600 ohms zero level. \$610.00

RP-1E Same as above with erase oscillator. \$850.00

RP-2 Recording Amplifier with two microphone inputs, master gain control, monitor amplifier, bias oscillator and power supply, complete. \$895.00

RP-2E Same as above with erase oscillator. \$1050.00

RP-3Z Recording Reproducing Amplifier 3 1/2" Rack Mount complete with power supply. Zero in zero out. \$575.00

Above prices include equalization for 16 or 35 MM SMPTE, ASA, NAB or other Standards.

PB-1 Reproduce preamp and power supply 600 ohms out at zero level. Can be used for 16 MM or 35 MM \$250.00

PB-2 Same as above. Two preamps and output transformers. \$475.00

PB-3 Same as PB-1 for use with three reproducers. \$725.00

FMEGF COMPRESSOR AMPLIFIER

PCC-1 Compressor Amplifier for recording, re-recording and transfer. Holds input or output levels within 5 db. Limits peaks to desired output maximum. Simplifies mixing and final release composite track. Input -20db to zero level output \$926.00

AMEGA AMPLIFIER MODULES

RC-1 Record Amplifier	\$ 97.00
PL-1 Playback Amplifier, head to O VU, 600 ohms	\$ 97.00
MP-1 Microphone Preamplifier 90 db gain	\$ 97.00
LN-1 Line Amplifier, approx. -20 dbm to O VU, 600 ohms	\$ 97.00
PO-1 Bias Oscillator	\$ 80.00
PA-1 Power Amplifier module only, 2 watt push-pull	\$ 97.00

All plug-in modules are interchangeable between all Amega recorders, mixers and dubbers.

The microphone preamp, playback amplifier, line amplifier and record amplifier are identical and may be used interchangeably. The necessary equalization is accomplished at the mating con-

AMEGA AMPLIFIER MODULE CRADLE ASSEMBLIES

CRC-1 Recording Amplifier with cradle input transformer. Cannon receptacle. Can be equalized for 16-17 1/2 or 35 MM output for low or high impedance record head. (Specify when ordering).	\$150.00
CPL-1 Reproduce Amplifier with cradle and output transformer. Cannon output plug, can be equalized for 16-17 1/2 or 35 MM. Output zero level 600 ohms low or high impedance heads (specify).	\$150.00
CMP-1 Microphone Preamplifier 100 db gain with input transformer. Can be inter-stage connected for 600 ohms gain control.	\$150.00
CLN-1 Line Amplifier 600 ohms in 600 ohms out. Gain from 45 db to 90 db. Two transformers and cradle.	\$160.00
CBO-1 Bias Oscillator with cradle assembly and bias transformer. Bias current adj.	\$150.00
CBOE-1 Bias Oscillator same as above with 40 mil bias current for recording bias and erase. Use with Amega Erase Head 16 or 35 MM	\$175.00
CPA-1 Power Amplifier same as PA-1 except cradle mount.	\$115.00

AMEGA AMPLIFIER SPEAKER

CPAP Amplifier Speaker Portable Assembly 6 x 9 oval speaker and one PA-1 Power Amplifier Power Supply 110 V 50-60 cycles.	\$350.00
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AMEGA POWER SUPPLIES

PWR-1 Power Supply for any three modular amplifiers 115 V input 24 V output	\$ 90.00
PWR-2 Power Supply for five modules and bias oscillator for erase. 115 V input 24 V output.	\$120.00
For 220 V input add \$15.00.	

AMEGA INTERLOCK ACCESSORIES

All Amega Interlock motors and sync-selsyn attachments can be controlled either by a distributor system or a sync-selsyn control panel. The distributor system provides a "slow start" and "coast down". The sync-selsyn system is an instant start since all synchronous motors are energized simultaneously. Slow start for sync-selsyn is provided when synchronous motors are wired and terminate to a variac (rotary transformer). See C-6 ST Slow Start Sync-Selsyn control. There is no operational difference between "distributor" and "sync-selsyn" except slow start.

Amega recommends the versatile "sync-selsyn" system. Reproducers can be controlled at the console for advance or retarding any of the three tracks. Any unit can be removed from the "line" and be brought back to line during the dubbing process. Units can be started at different times and "synced" with other tracks.

C-2 Sync-Selsyn Control Panel. Unit has controls for recorder and projector. Receptacles are provided for inputs from the recorder synchronous motor, projector synchronous motor and two interlock motors. One control switch starts both units simultaneously.	\$125.00
C-6 Sync-Selsyn Control Panel. Same as above but has 6 input receptacles and 6 control switches. Interlock can be accomplished between any two or more of the six inputs.	\$299.00
C-6C Same as above in Amega Walnut Console.	\$360.00
C-6CC Same as above in Amega Steel Cabinet.	\$360.00
C-6-ST Slow Start Sync-Selsyn Control Panel. Same as above except includes rotary transformer and can be controlled for "slow start" and "coast down".	\$399.00
C-6-SPB Same as above with push button control. Push to start, push to stop. "Slow start" and "slow coast down."	\$425.00
D-6 Distributor Control Panel. Controls are provided for the operation of 6 units which may include recorder, dubber or projector. Rotary transformer for slow start of distributor drive motor. Separate controls and receptacles for 6 inputs.	\$390.00
D-6-PB Same as above with push button control. Push to start, push to stop.	\$425.00
D-6-3 Distributor Control Panel. Same as D-6 except for use with 3 phase distributor and interlock motors.	\$499.00
DS-1 Distributor. For use with D-6 Control Panel. Has 110 volt 50 or 60 cycle input. Unit consists of synchronous drive motor and distributor interlock motor.	\$499.00
DS-3 Distributor. For use with D-6-3 Control Panel. Has 220 volt, 3 phase input. Unit consists of synchronous drive motor and distributor interlock motor.	\$799.00

MEGA INTERLOCK MOTORS AND ATTACHMENTS, 110 VOLT AND 220 VOLT

S-1 Interlock Motor 110 volt single phase excitation. 110 volt 3 phase secondary. For use with 16 MM projector and other equipment. Motor can be driven 900, 1200, 1440, 1500, 1800 rpm. \$199.00

S-1-A Interlock Motor Attachment for all model recorders and reproducers (dummy). When ordering specify model number of recorder or dummy, rack or portable. \$250.00

INTERLOCK ATTACHMENTS FOR PROJECTORS

S-1 BH Bell & Howell with interlock motor. \$350.00
With sync motor for sync-selsyn. \$500.00

S-1 BHS Bell & Howell Specialist with interlock motor. \$450.00
With sync motor for sync-selsyn. \$600.00

S-1 DV DeVry Projector with interlock motor. \$350.00
With Sync motor for sync-selsyn. \$700.00

S-1 GG Graflex (not reversible) (Cannot be equipped with sync motor). \$350.00

S-1 K Kodak-Pageant with interlock motor. \$350.00
With sync motor for sync-selsyn. \$500.00

S-3 Interlock Motor 220 volt, 3 phase, excitation and secondary 50-60 cycles. \$350.00

When 3 phase interlock motors are required for above attachments add \$200.00

PRICES ON REQUEST FOR OTHER PROJECTORS.

The Amega Workshop will send information on special requirements for different projectors. Write P.O. Box 25, Sun Valley, Calif. Interlock toothed belts and sprockets will be supplied at nominal cost. Specify hole size and speeds to be locked.

MEGA LOW IMPEDANCE HEADS

For replacement and upgrading of present equipment supplied with complete instructions from the Amega Workshop.

REPLACEMENT HEADS 16 MM FOR MODELS A-1 AND M-1-2-5-6-7

H-R-16-E Edge Track Record Head 200 mil for 16 MM. One screw mount complete with plug. \$ 49.50

H-R-16-C Center Track Record Head same as above. \$ 49.50

H-P-16-E Edge Track Play Head 200 mil for 16 MM. One screw mount complete with plug. \$ 49.50

H-P-16-C Center Track Play Head same as above. \$ 49.50

H-P-R2 Record or Play Head two track. \$150.00

INTERCHANGEABLE HEAD ASSEMBLY FOR MODEL A-1 RECORDER

H-A-E Edge Track Record and Play Heads mounted on plate ready for plug in. \$120.00

H-A-C Center Track Record and Play Heads same as above \$120.00

INTERCHANGEABLE HEAD ASSEMBLY FOR MODEL M-1-2-5-6-7

H-M-E Edge Track Record and Play Heads mounted on place ready for plug-in. \$126.00

H-M-C Center track record and Play Heads same as above. \$126.00

HEAD MOUNTING PLATES

H-MPA Model A-1 Interchangeable Head Mounting Plate and Head Adjusting Plates complete with mounting screws and springs. \$ 20.00

H-MPM Model M-1-2-5-6-7 Head Mounting Plate same as above. \$ 26.00

REPLACEMENT HEADS 35 MM FOR MODEL M-1-2-5-6-7

H-R-35 Record Head single track 200 mil. \$ 95.00

H-P-35 Play Head Single track 200 mil. \$ 95.00

H-R-35-3 Record Head three 200 mil tracks. \$250.00

H-P-35-3 Play Head three 200 mil tracks. \$250.00

H-P-35-2 Record or Play Head two track. \$200.00

REPLACEMENT HEADS 17 1/2 MM FOR MODEL M-1-2-5-6-7

H-R-17 Record Head 200 mil track \$ 49.50

H-P-17 Play Head 200 mil track \$ 49.50

H-P-17-2 Play Head 200 mil two tracks \$200.00

RELEASE PRINT HEADS 16 MM FOR A-1 AND M-1-2-5-6-7

H-RR Record Head 100 mil track. \$ 95.00

H-PR Play Head 100 mil track. \$ 95.00

INTERCHANGEABLE RELEASE PRINT HEAD ASSEMBLY

H-A-R For A-1 Recorder Record and Play Heads complete with mounting plate and plugs. \$210.00

H-1-R For M-1 Recorder same as above. \$216.00

H-M-R For M-2 Recorder same as above. \$216.00

H-5-R For M-5 Recorder same as above. \$216.00

H-6-R For M-6 Recorder same as above. \$216.00

H-7-R For M-7 Recorder same as above. \$216.00

MEGA RACK CABINETS FOR MODELS A-1 AND M-2

RAK 77" Rack deluxe gray all steel. \$300.00

RAK-1 60" Rack same as above. \$275.00

RAK-2 36" Rack same as above. \$175.00

RAK-3 Table Top Console enclosure 7" panel. Space for C-6 or C-6-ST interlock control panel. \$ 85.00

MEGA BELT AND SPROCKET SETS FOR INTERLOCK

BS-1 1800 rpm to 1440 rpm (4" to 11" centers), per set. \$ 75.00

BS-2 1800 rpm to 1200 rpm (4" to 11" centers), per set. \$ 75.00

BS-2 1 to 1 Ratio 4" to 12" centers, per set. \$ 75.00

Note: Other ratios on request. Include shaft hole size when ordering.

AMEGA PANELS

PPP	7" Blank panel AMEGA gray with brushed aluminum borders 1/8 thick.	\$ 22.00
PPP-1	12 1/4 same as above. Use as filler panel or for mounting equipment.	\$ 44.00

Write for prices on any AMEGA panel or for special sizes.

AMEGA CABLES

CABL	5 Wire Interlock Motor Cable complete with plugs. 25' lengths.	\$ 25.00
CABL-1	4 Wire Sync-Selsyn Remote or Interlock Cable. 25' lengths.	\$ 24.00
CABL-2	Dubber Cable 2 wire shielded gray, vinyl cover, complete with XL plugs, 15' lengths. (Dubber to mixer or recorder).	\$ 22.00
CABL-3	Mixer to Recorder Cable. Same as above.	\$ 22.00
CABL-3	Microphone cable, 2 wire shielded. Male and female XL plugs, 25' lengths.	\$ 35.00

AMEGA OPTICAL SYSTEM REPRODUCERS

AOS-6	Reproducer Optical for 16MM \$1870.00 reproducing all type tracks. 35MM \$2000.00 Same as M-6 complete with interchangeable pre-amp power supply.	
AOS-6C	Combination 16-35 MM. "Switch over Mask" and switch for equalization. Unit will reproduce all type tracks to SMPTE Standard.	\$2500.00
AOS-7	"Duo" Combination, one 16 MM and one 35 MM, two complete reproduce pre-amplifiers and power supplies.	\$3600.00
AOSA	Optical Attachment for M-6 16MM \$ 900.00 or M-7 magnetic recorder 35MM \$1050.00 or reproducer. Unit 16-35MM \$1400.00 mounted on 3 1/2 x 19" panel and mounts under left hand side of M-6 or M-7. Film threads down to optical unit magnetic heads do not have to be removed.	
AOSAA	Same as above for A-1 16MM \$ 900.00 Recorder or Reproducer. 35MM \$1050.00 16-35MM \$1400.00	
AOSM-1	Same as above for M-1 16MM \$ 900.00 Recorder or Reproducer. 35MM \$1050.00 16-35MM \$1400.00	
AOSM-2	Same as above for M-2 16MM \$ 900.00 Recorder or Reproducer. 35MM \$1050.00 16-35MM \$1400.00	

Note: Factory installation only.

*** Write for quotations on lightproof covers for Model A-1, M-2, M-6, M-7 Recorders and Reproducers. Magazine mount and take-up engage is a factory installation. Optical attachment mounts on 3 1/2 x 19" panel. Amplifiers and controls take 12 1/2 x 19" space.

AMEGA OPTICAL RECORDING SYSTEM

AORS	The M-1 Transport is used 16MM \$ 7800.00 as the base for the AMEGA 35MM \$ 8100.00 system. The rack mount 16-35MM \$12,000.00 concept provides ease of operation with all controls and amplifiers self-contained. Film magazine mounts above transport with panel mount torque motors which self engage for take-up. The new AMEGA "lightproof" housing covers the entire film transport and is mounted after threading with two thumb screws. The special galvanometer is the very latest development for variable area negative sound track recording. Direct monitor from the silicone photo cell during recording provides quality control at all times. Unit is also used as reproducer. Amplifier system uses AMEGA interchangeable modules and one AMEGA PCC-1 compressor amplifier. Unit complete with rack. Note: Film magazine not included. Mitchell type mount. (Other mounts on request).	
AORSAM	Same as above with magnetic Add \$800.00 16MM heads and amplifiers. Add \$900.00 35MM	

AMEGA KITS FOR "RETRO FIT" AND STUDIO ASSEMBLY

KRS-1	Kit will convert existing 16MM \$794.00 transport to up-to-date 35MM \$885.00 electronics and low impedance heads. Record and play heads and one RP-record reproducer amplifier. Adaptor plates and instructions included.	
KRS-Z	Same as above with one RP-12 16MM \$709.00 amplifier. 35MM \$800.00	
KRS-2	Record and play heads and one 16MM \$994.00 PP-2 two channel record- 35MM \$1085.00 reproduce amplifier.	
KRS-3	Record and play heads plus 16MM \$549.00 one CRC-1, one CPL-1, one 35MM \$640.00 CBO-1. Instructions for wiring film-direct sw. and rec.-play sw. 600 ohms in 600 ohms out. Ideal for studio with mixer or console.	
KRS-36	Same as above with AIM-6 16MM \$1049.00 kit of parts for your assembly 35MM \$1240.00 of film transport. All parts, screws, etc. Complete with instructions.	
KRS3-2	Same as above with ATM-2 16MM \$1149.00 transport kit, heads, and 35MM \$1395.00 amplifiers.	
KRS-M6AI	AIM-6 film transport kit \$510.00 with all parts, screws, etc. Complete instructions.	
KRS-M2-AT	Assemble yourself kit for \$610.00 ATM-2 transport. Complete with parts and instructions.	
KRS-RP-1Z	AMEGA zero in zero out \$525.00 amplifier kit of parts with panel switches, modules and hardware.	
KRS-RP-1	Single mic channel record- \$679.00 play amplifier. Complete kit of parts and instructions.	
KRS-RP-2	Two mic channel record-play \$789.00 amplifier. Complete kit of parts and instructions.	

Write for prices on "kits" for any item listed in the catalogs.